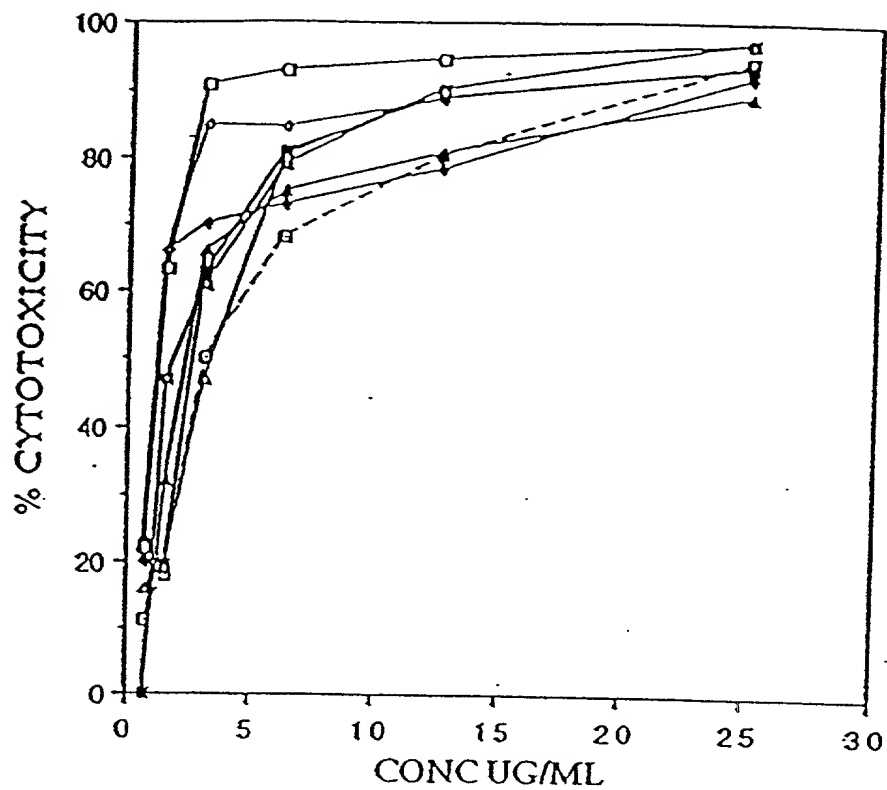


FIG. 2



---□--- HEY
 —●— OVCAR-3
 —□— C-1
 —○— SKOV-3
 —▲— PANC-1
 —□— 769-P
 —▲— 786-0
 —△— A498

FIG. 3

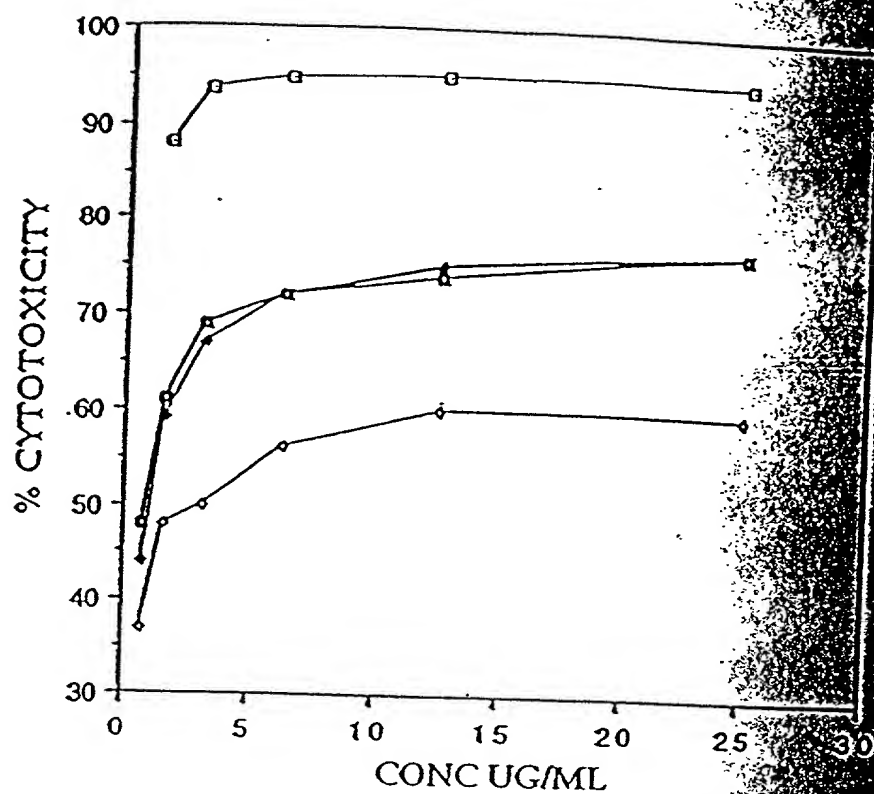
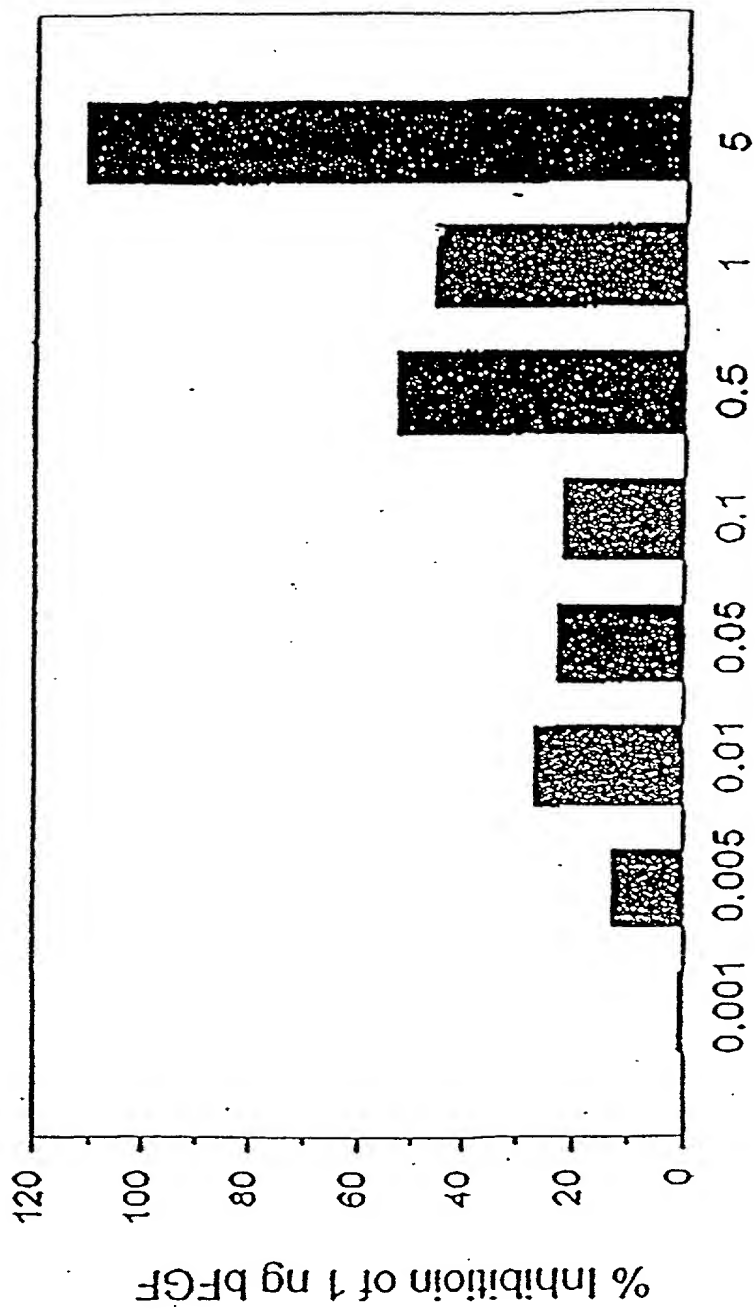


FIG. 4



UA-BRF-004-DELEP F035 $\mu\text{g/ml}$

FIG. 5

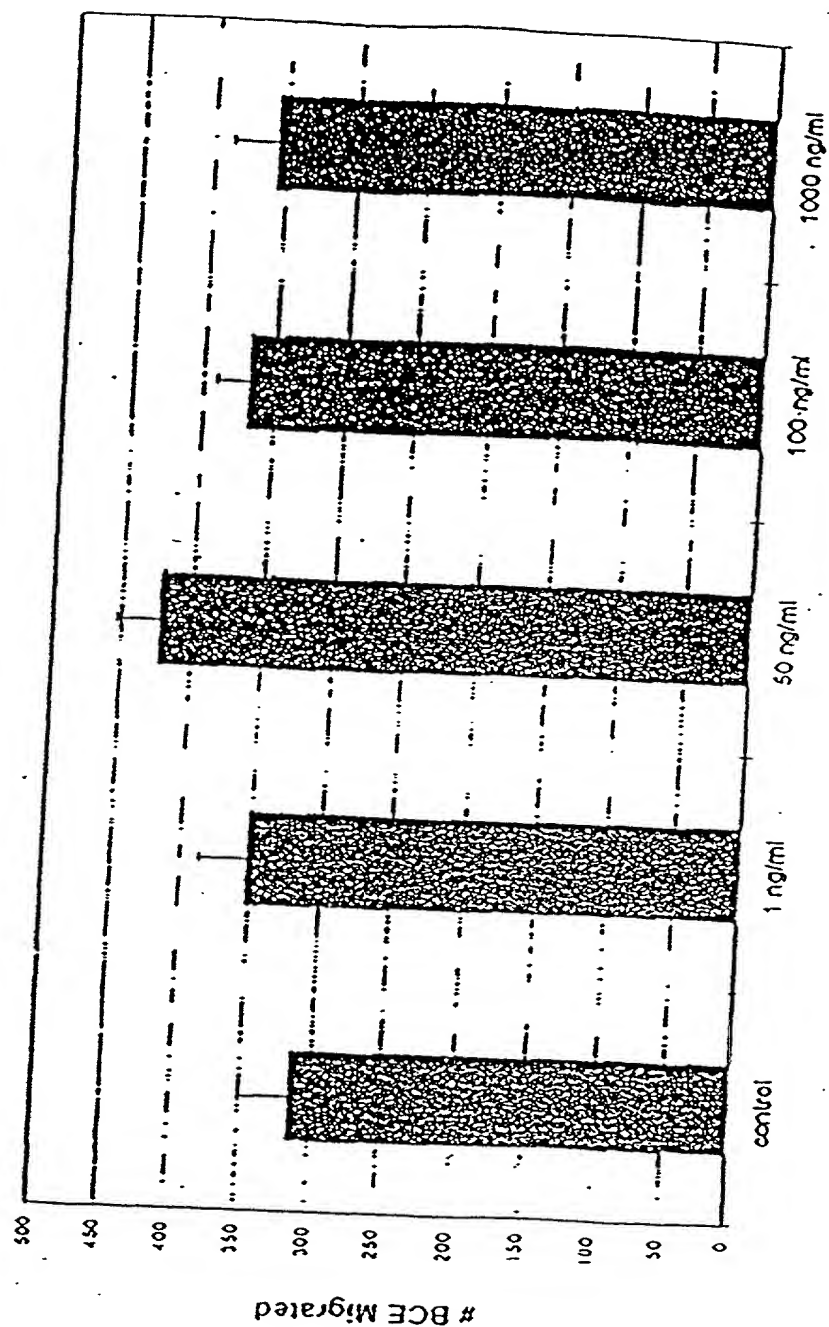


FIG. 6

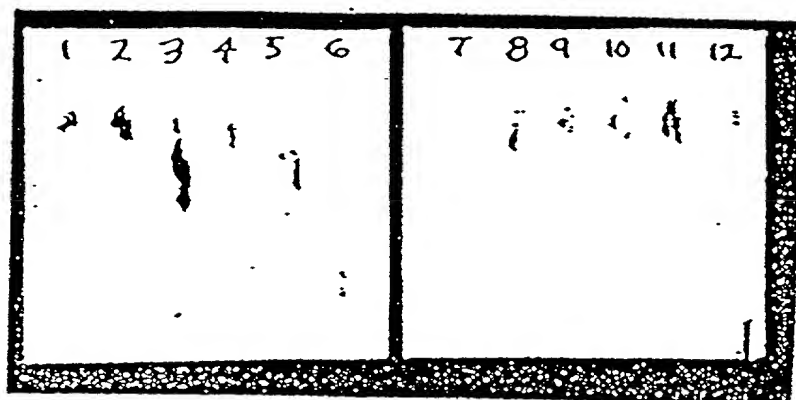


FIG. 7



FIG. 8

Dose: 0.2 ml

ACETONE
4 weeks

Mouse # 133

FIG. 9A



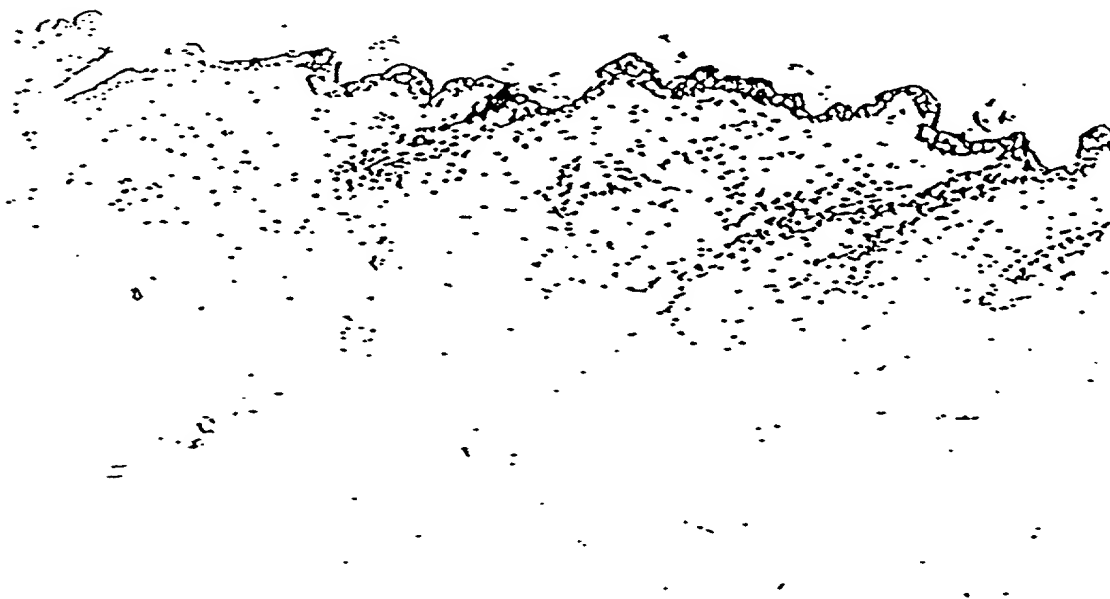
Dose: 0.2 ml

ACETONE
8 Weeks

Mouse # 150

FIG. 9A

FIG. 9B



Dose: 100 nmol

DMBA
4 Weeks

FIG. 9C



Dose: 100 nmol

DMBA
8 Weeks

Mouse # 149

FIG. 9D



Dose: 0.3 mg

Compound # 35
4 weeks

Mouse # 136

FIG. 9E



Dose: 0.3 mg

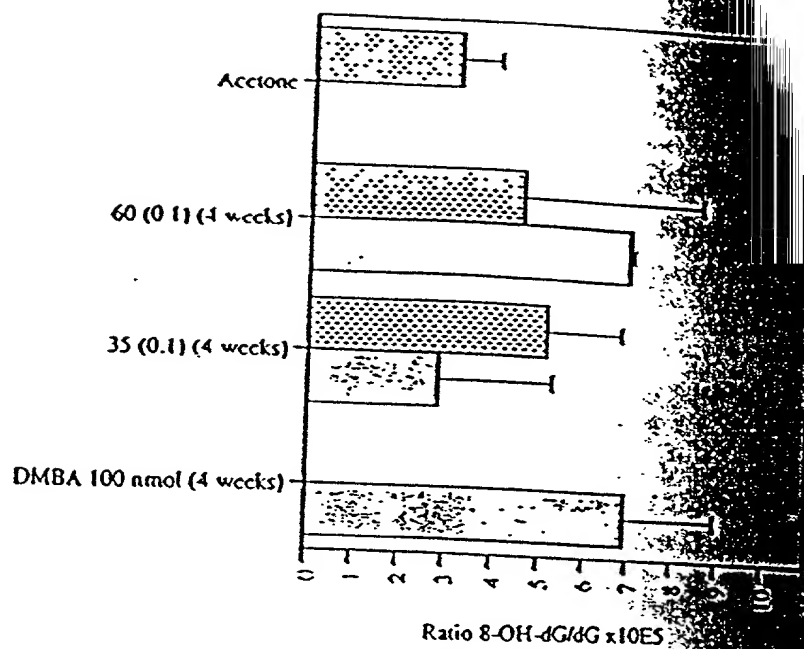
Compound # 35 + DMBA
8 Weeks

Mouse # 140

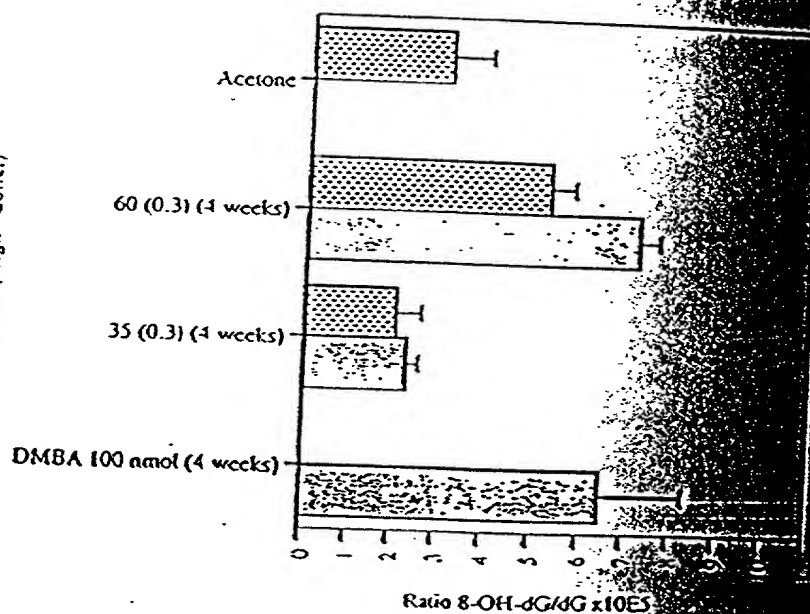
FIG. 9F



Treatment (Low Conc.)



Treatment (High Conc.)





 -DMBA
 +DMBA

FIGURE 10

FIGURE 11

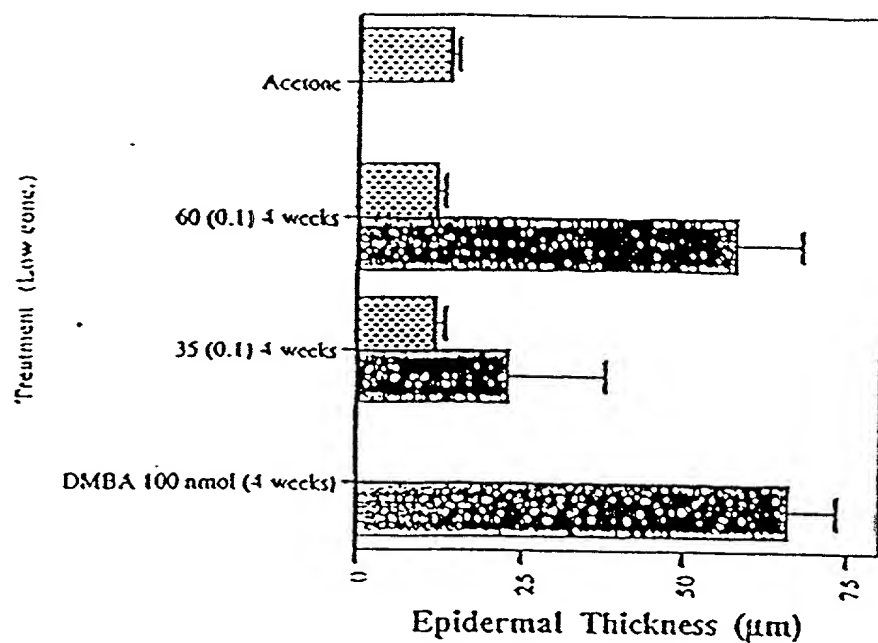


FIG. 11A

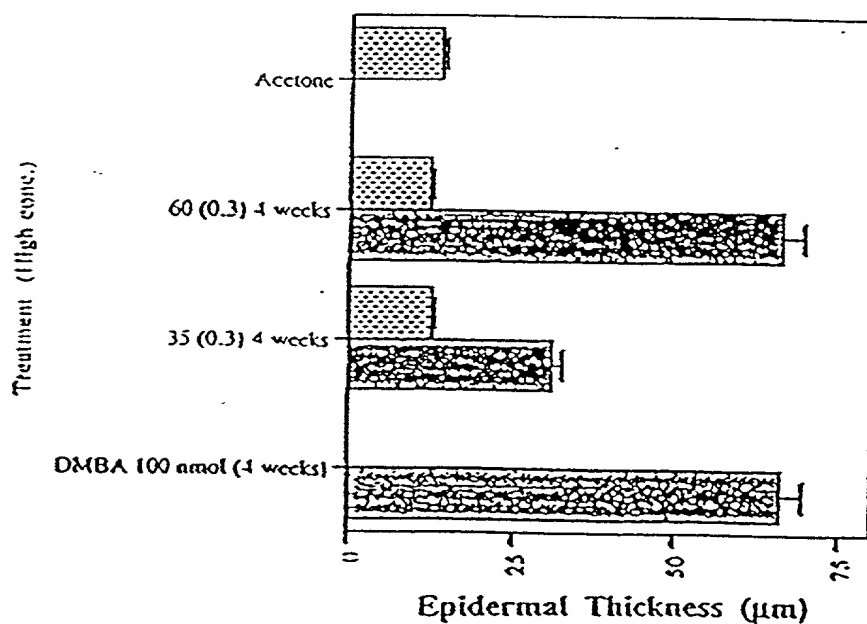


FIG. 11B

-DMBA

+DMBA

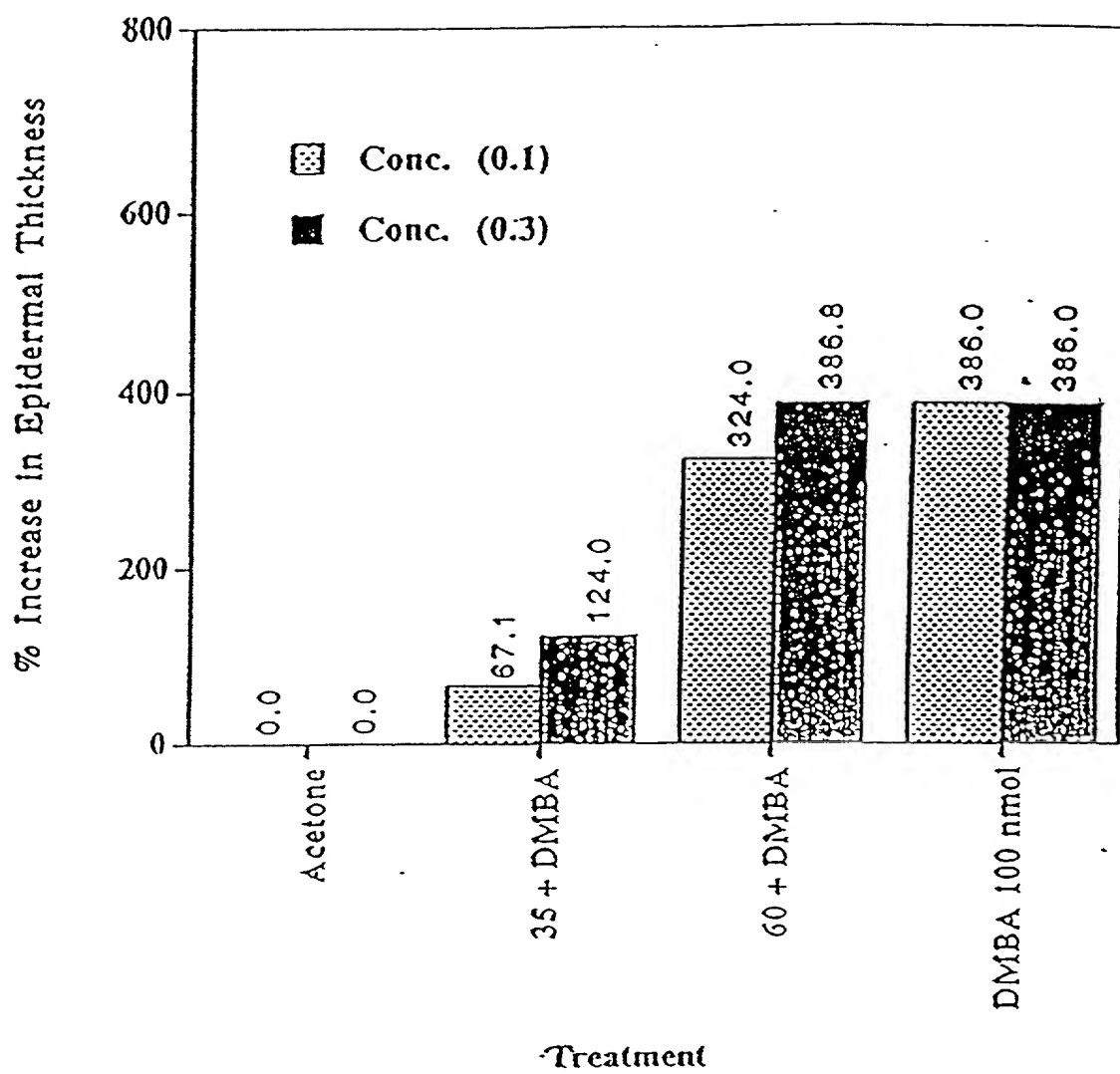


FIG. 12

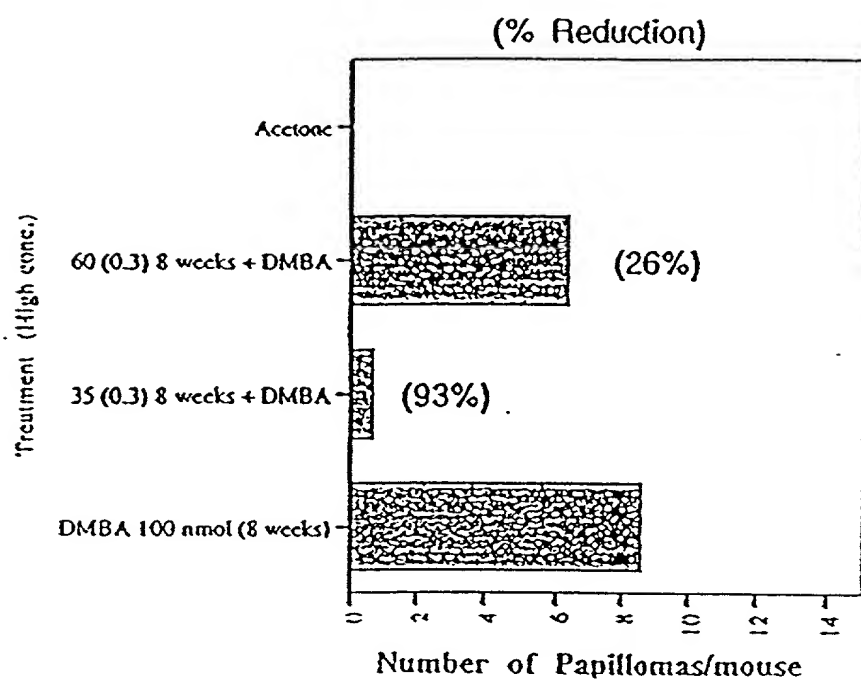


FIG. 13

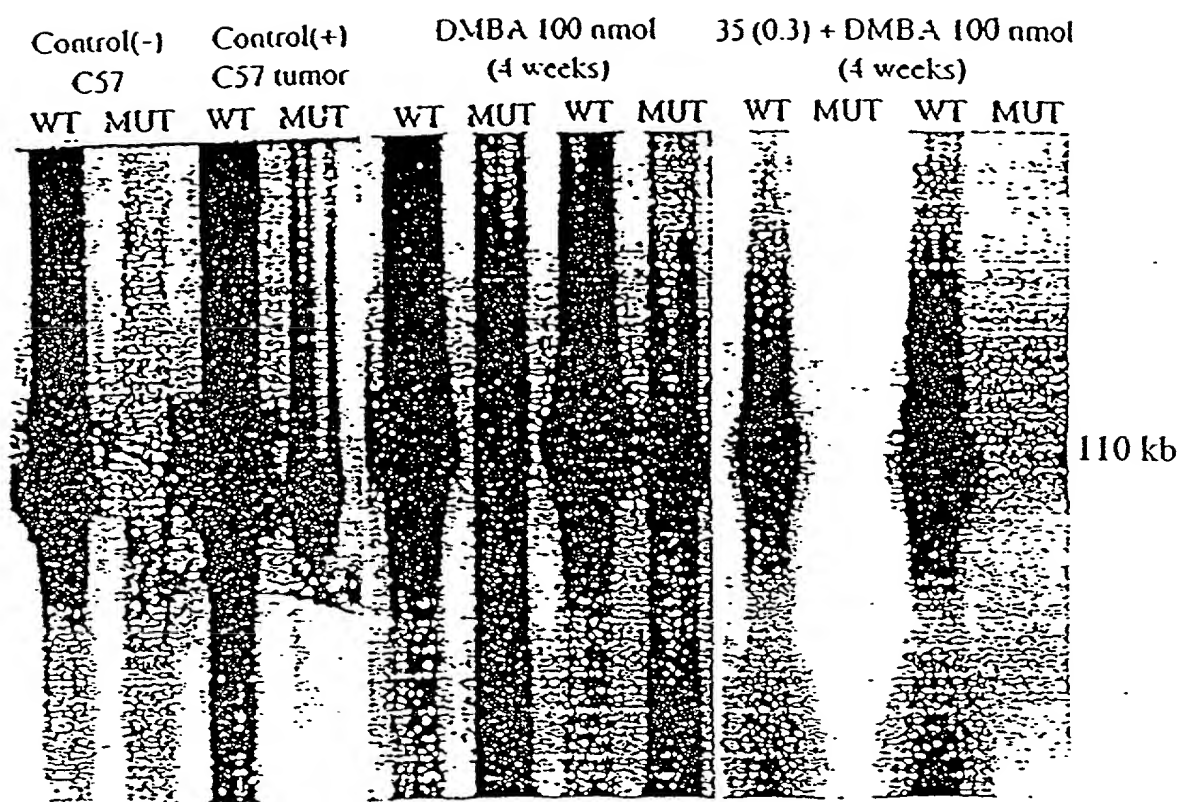


FIG. 14

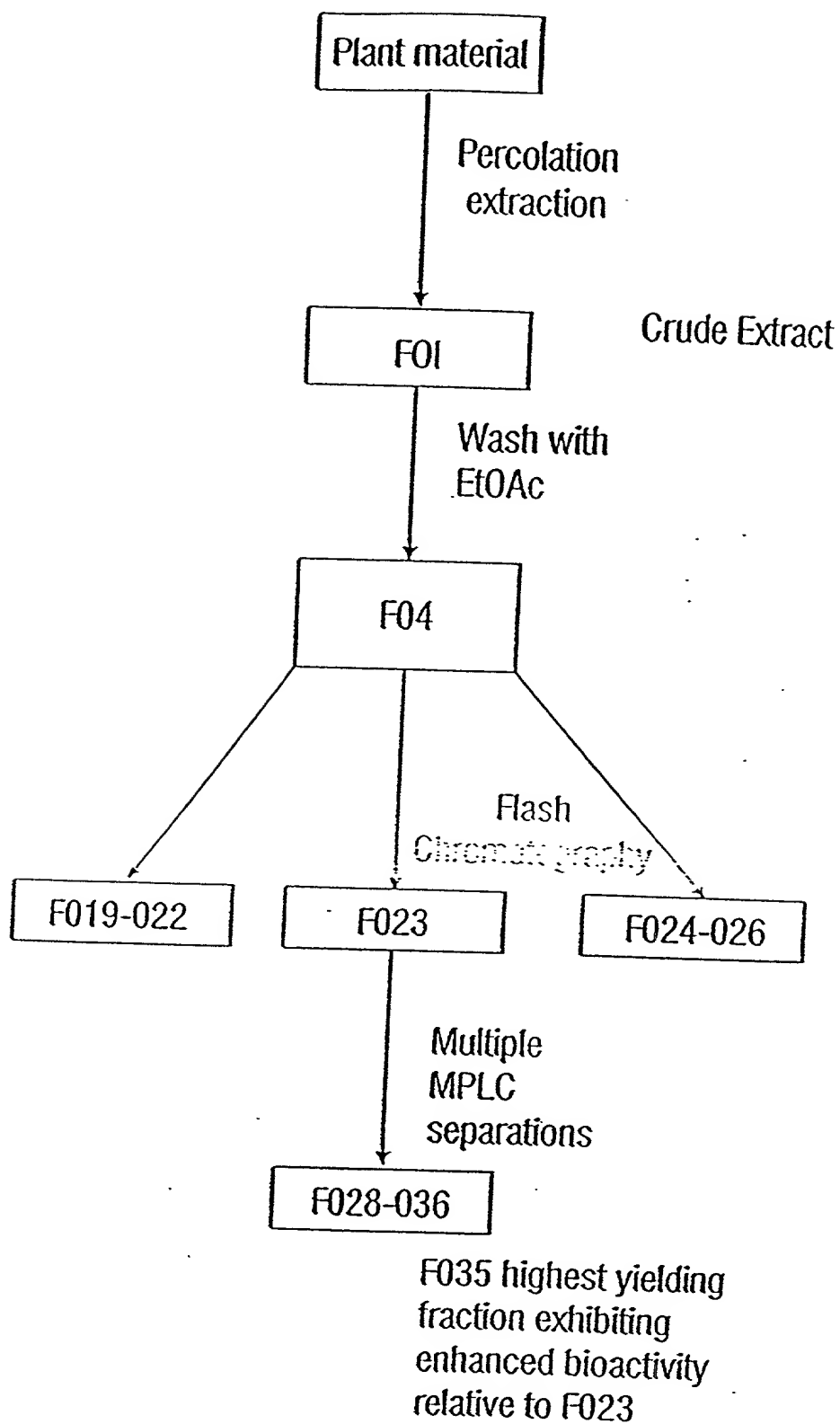


FIG. 15

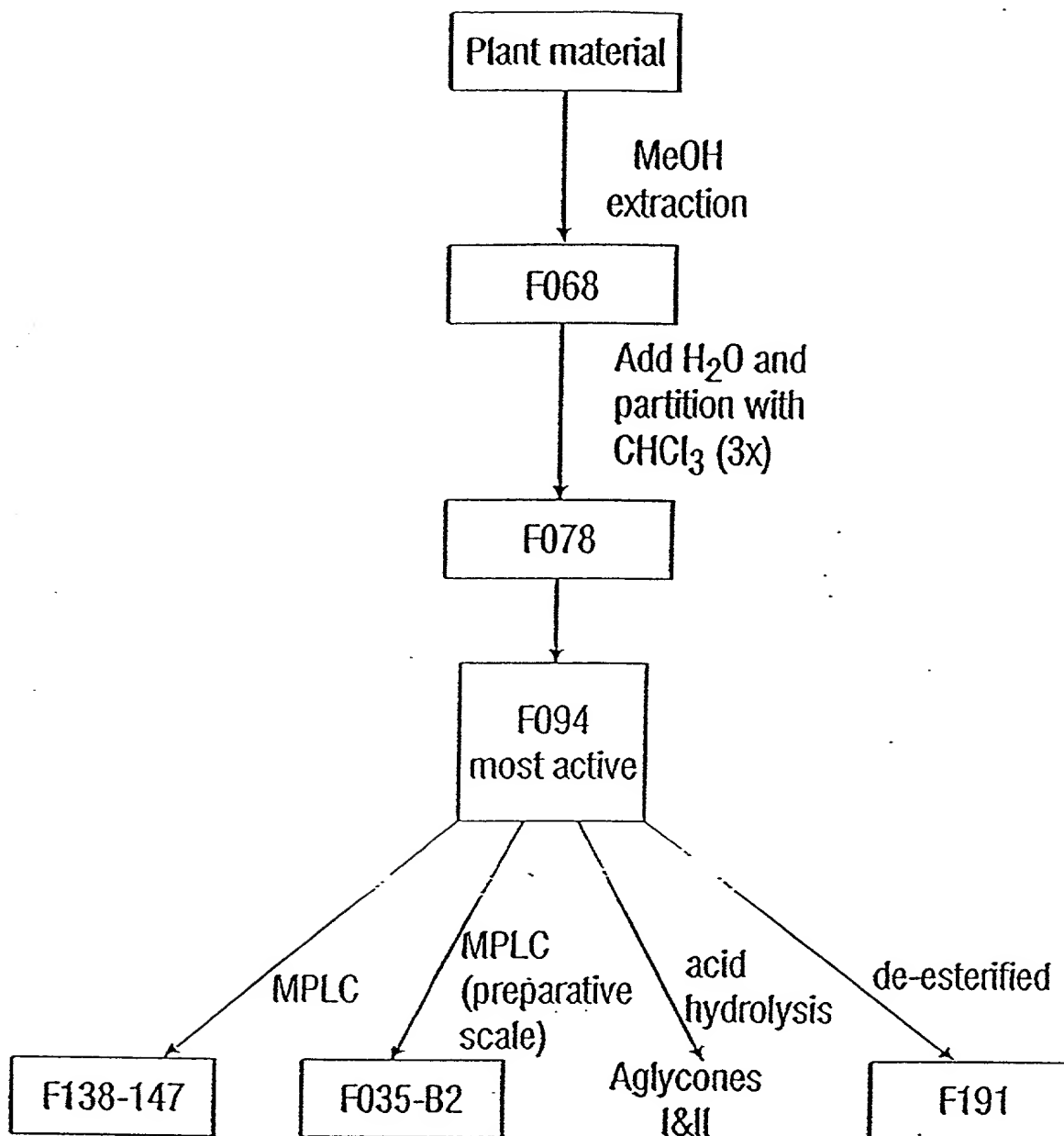


FIG. 16

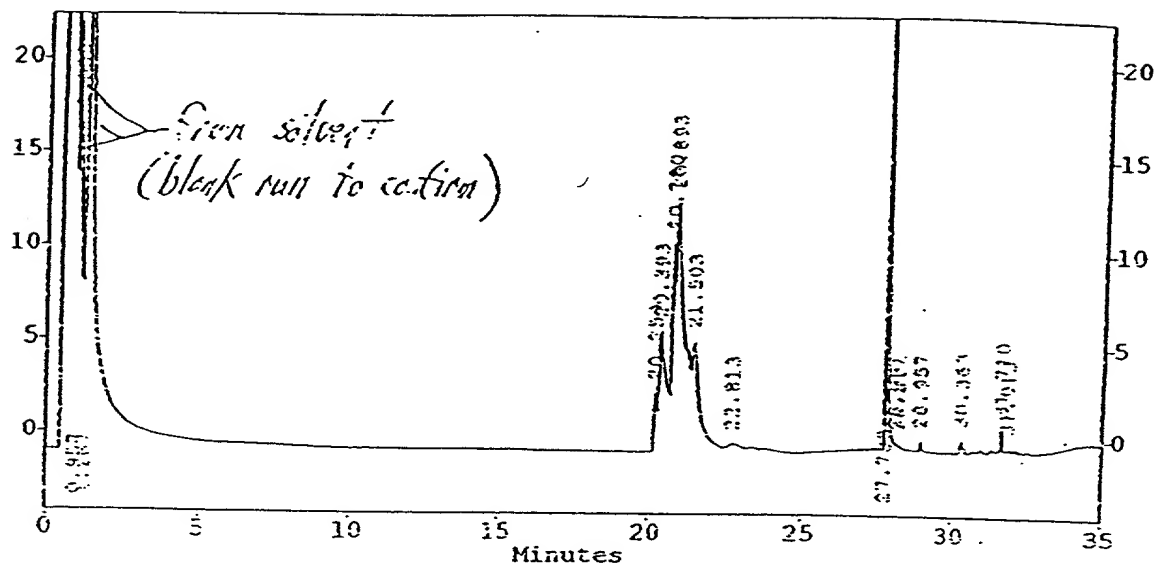


FIG. 17A

m
v

FIG. 17B

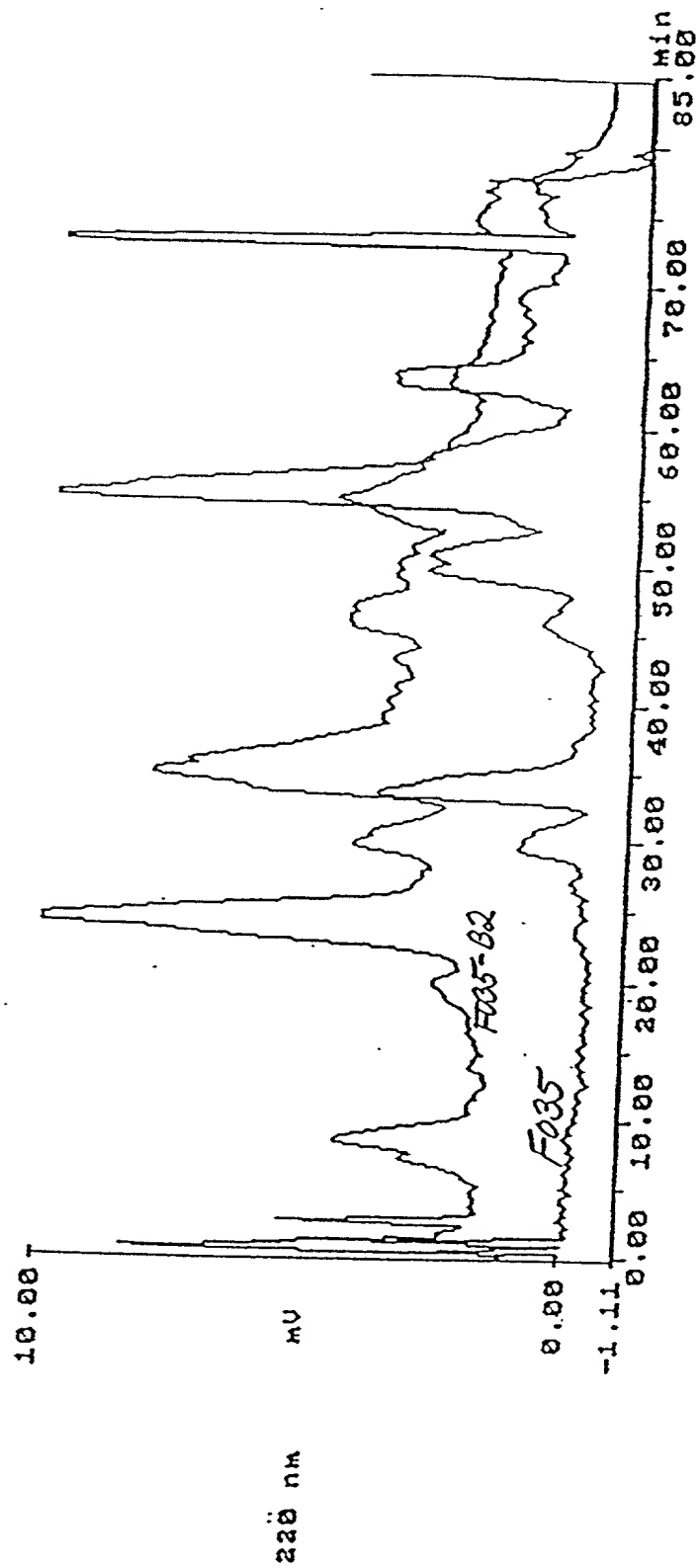


FIG. 18A

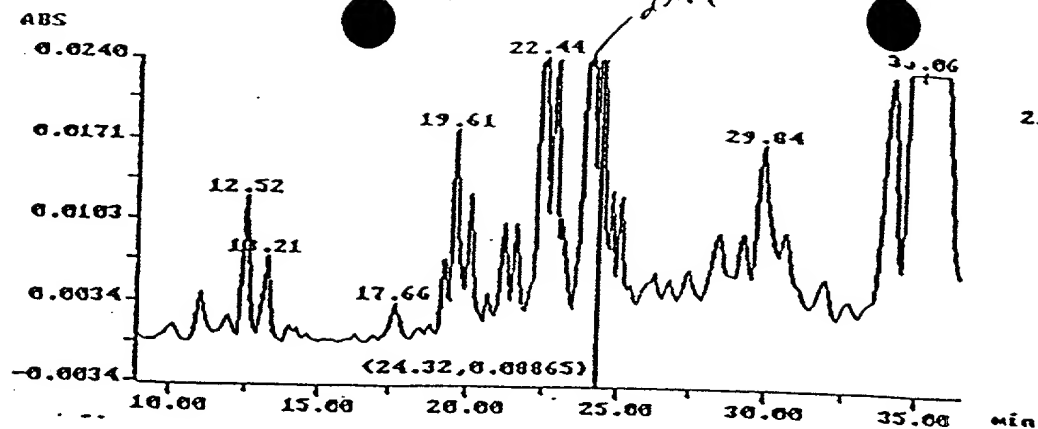


FIG. 18B

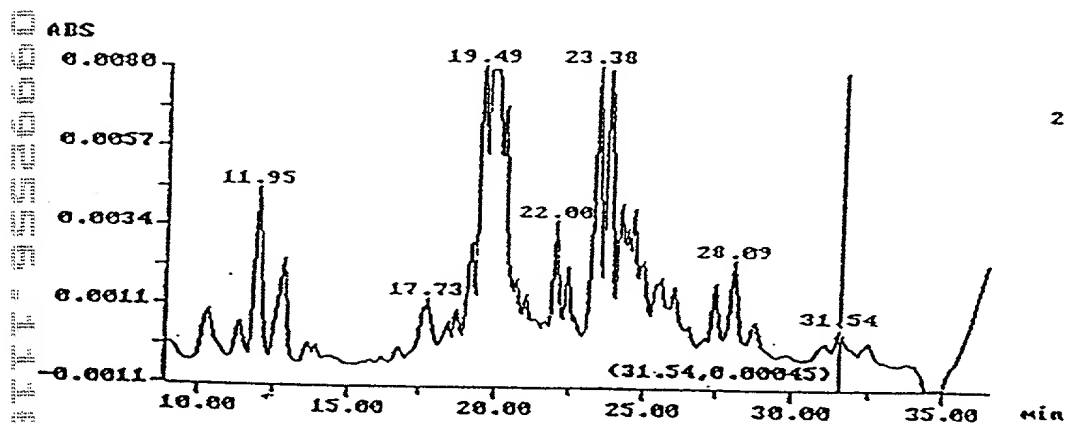


FIG. 18C

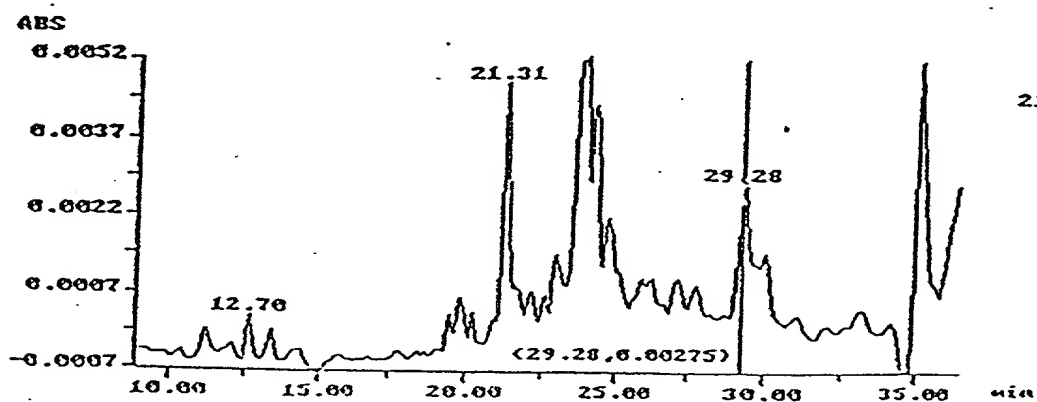


FIG. 18D

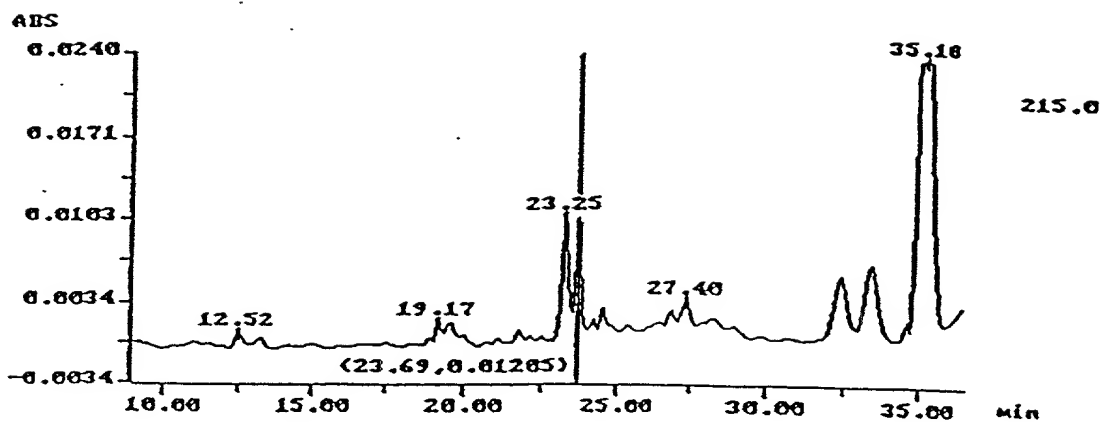


FIG. 18E

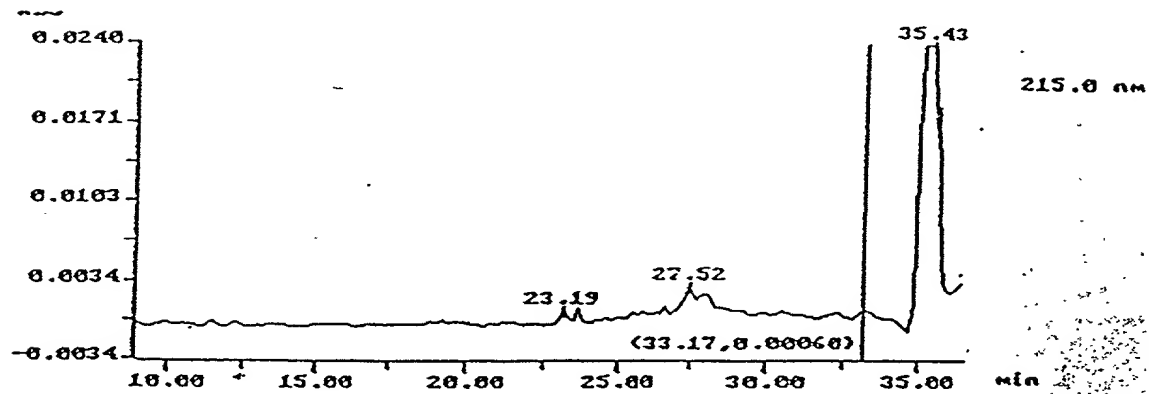


FIG. 18F

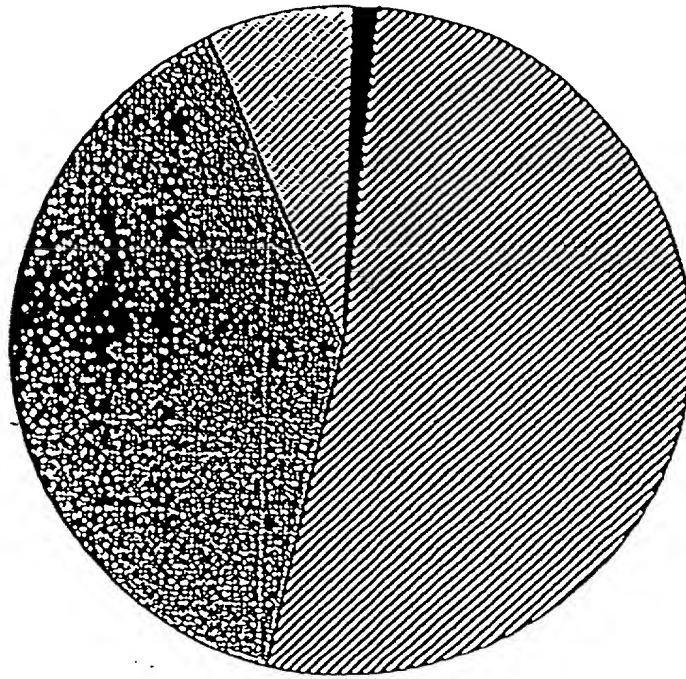


FIG. 19A

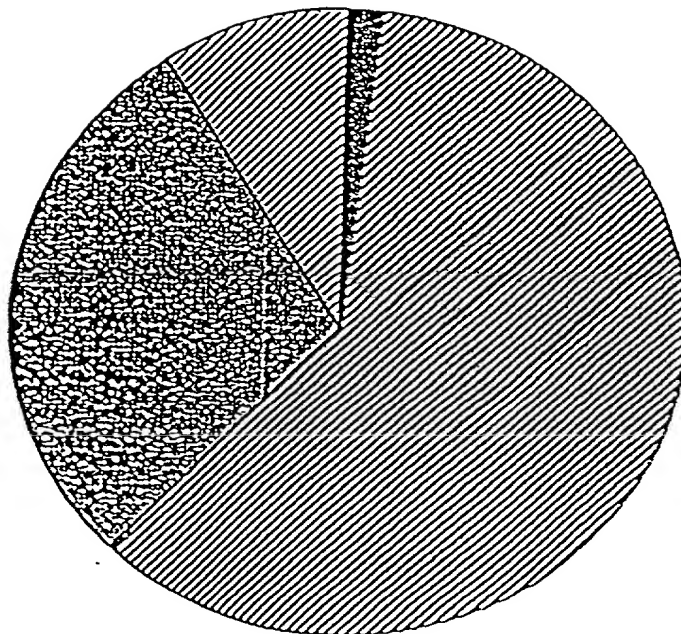
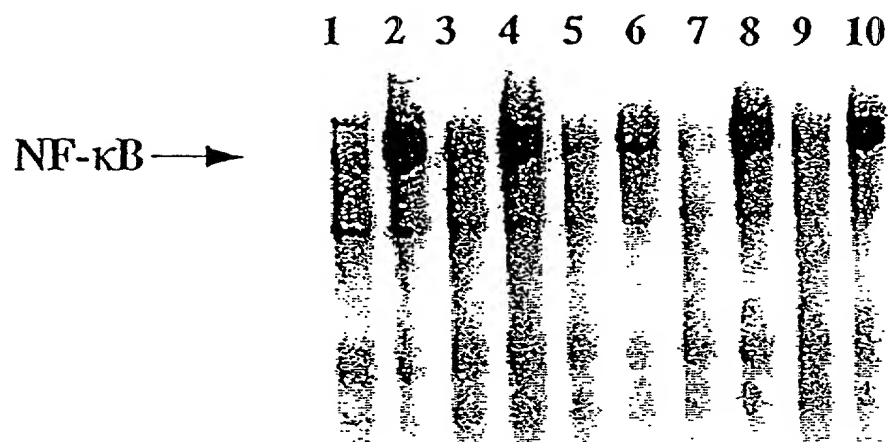


FIG. 19B



- 1 : Untreated
- 2 : TNF (100pM)
- 3 : F035 (1ug/ml)
- 4 : TNF+ F035 (1ug/ml)
- 5 : F035 (2μg/ml)
- 6 : TNF+ F035 (2μg/ml)
- 7 : F094 (1μg/ml)
- 8 : TNF+F094 (1μg/ml)
- 9 : F094 (2ug/ml)
- 10 : TNF+ F094 (2ug/ml)

FIG. 20

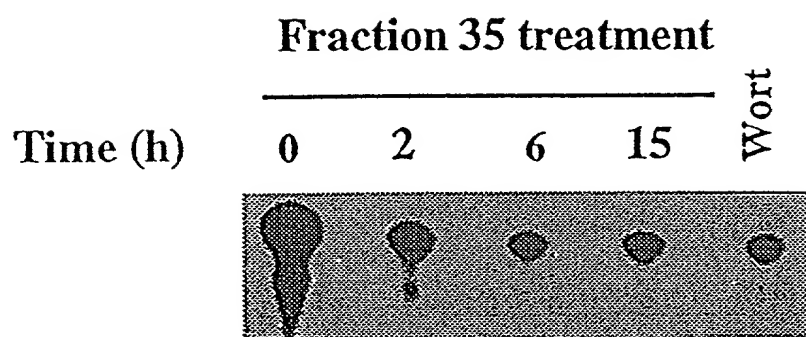


FIG 21

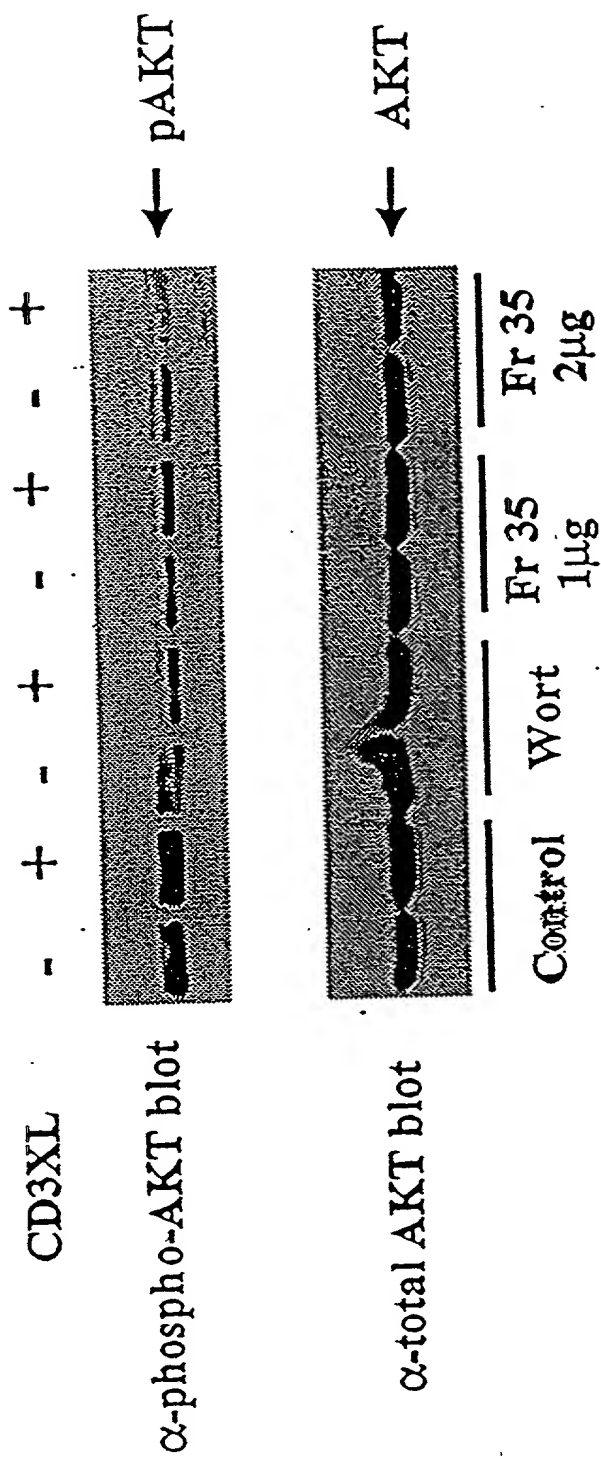


FIG 22

FIG 23

STRUCTURE OF ELLIPTOSIDES:

ELLIPTOSIDE E if R=OH

ELLIPTOSIDE A if R=H

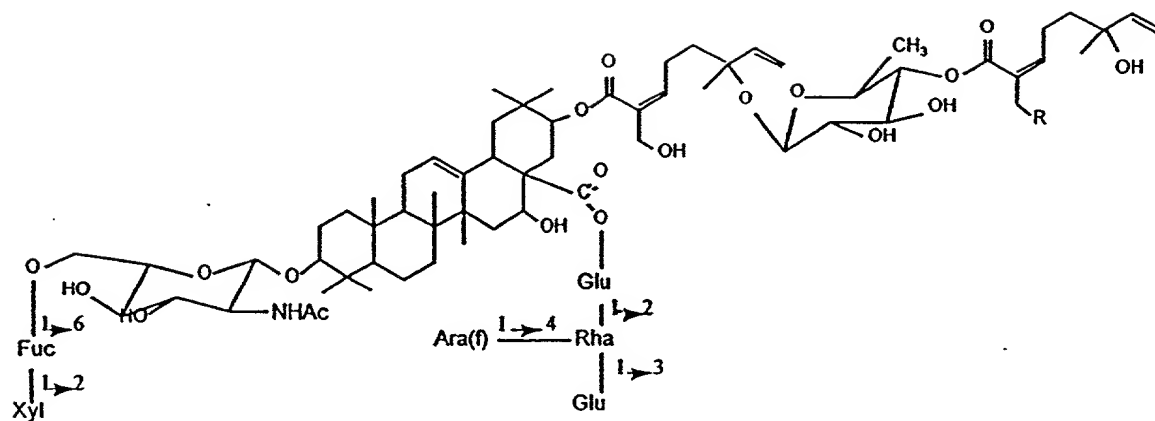
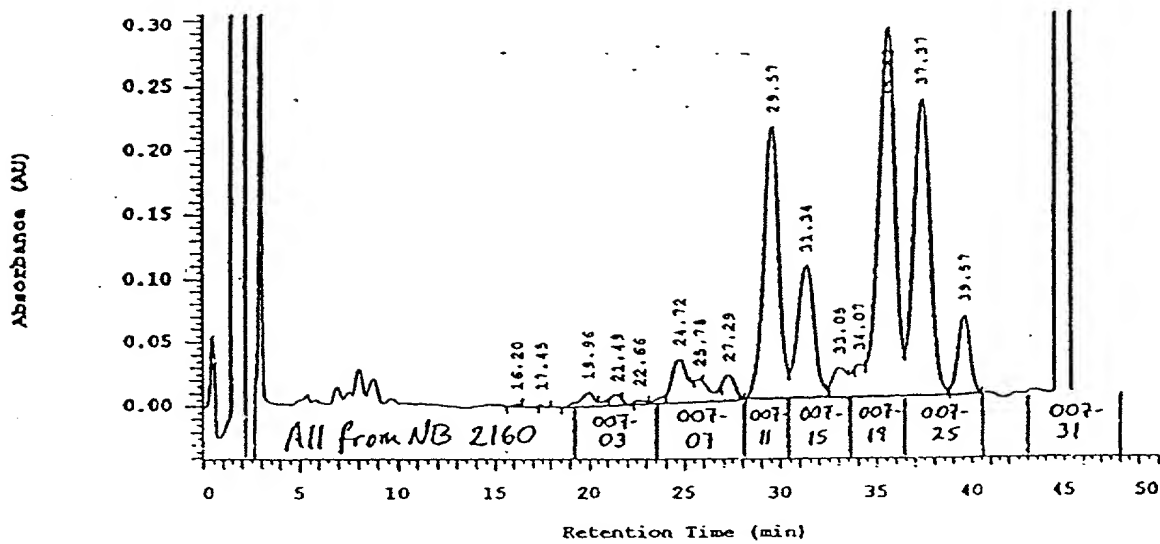


FIG 24

Chromatogram showing Absorbance (AU) versus Retention Time (min). The x-axis ranges from 0 to 45 minutes, and the y-axis ranges from -0.02 to 0.06 AU. The chromatogram displays three distinct groups of peaks, labeled 1st family, 2nd family, and 3rd family. Peaks are labeled with letters A through L and retention times.

Peak Label	Retention Time (min)	Family
A	4.61	1st
B	6.21	1st
C	7.76	1st
D	9.53	1st
E	10.97	1st
F	12.97	1st
G	14.45	1st
H	16.35	1st
I	21.28	2nd
J	22.88	2nd
K	24.95	2nd
L	26.48	2nd
M	27.30	2nd
N	28.63	2nd
O	30.81	2nd
P	32.83	2nd
Q	34.22	2nd
R	35.59	2nd
S	37.44	3rd
T	38.72	3rd
U	39.99	3rd
V	40.85	3rd
W	41.67	3rd
X	42.46	3rd
Y	43.24	3rd
Z	43.93	3rd
AA	44.71	3rd

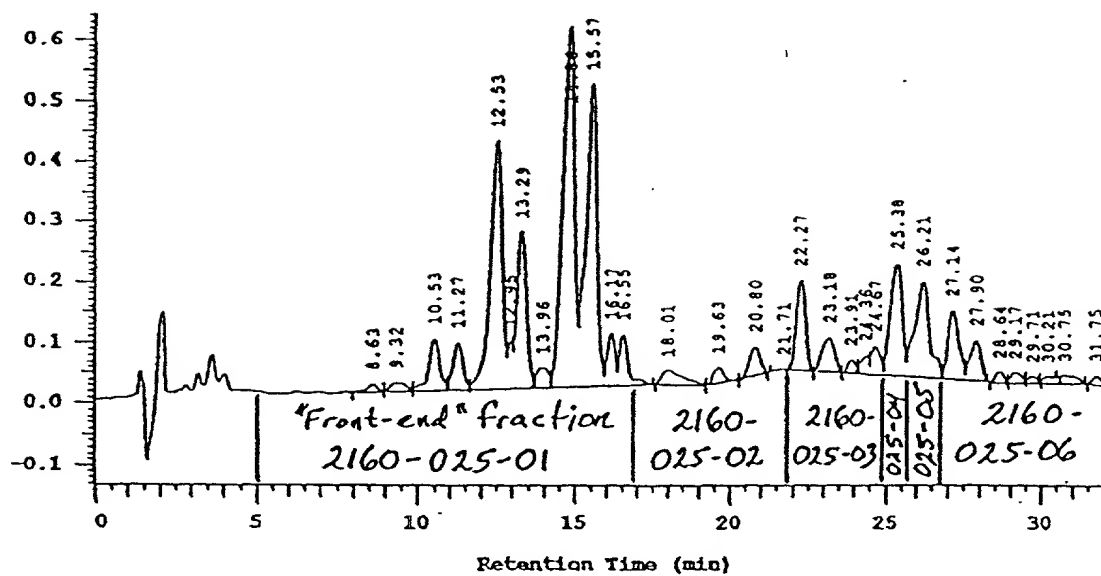
FIG 26



First Fractionation by Semi-Prep HPLC of F094

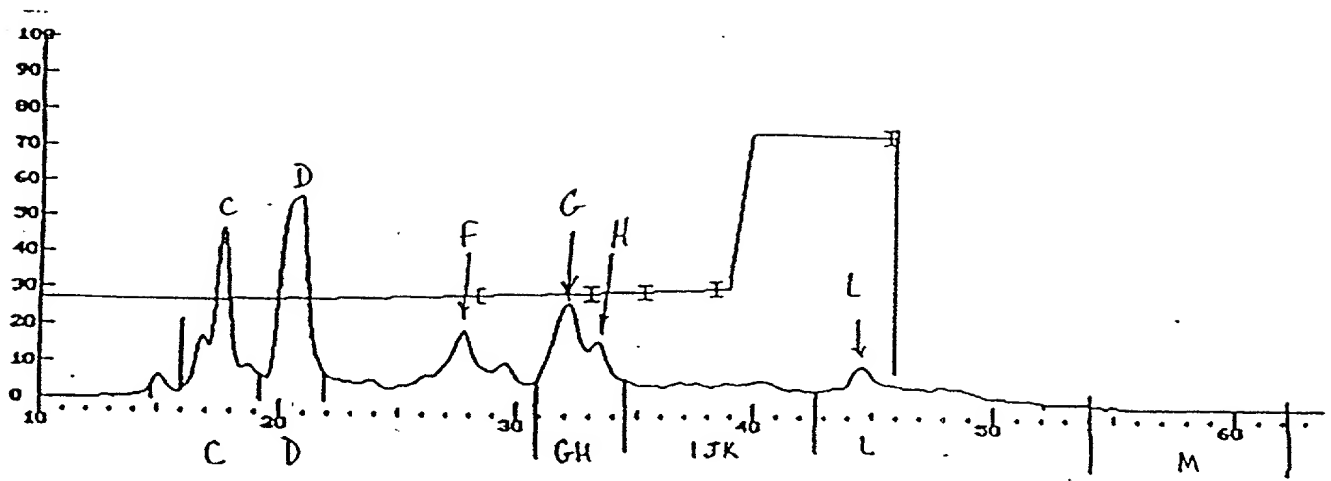
FIG 27

Absorbance (AU)



Second Fractionation by Semi-Prep HPLC of F094

FIG 28



Prep Fractionation of F094

FIG 29

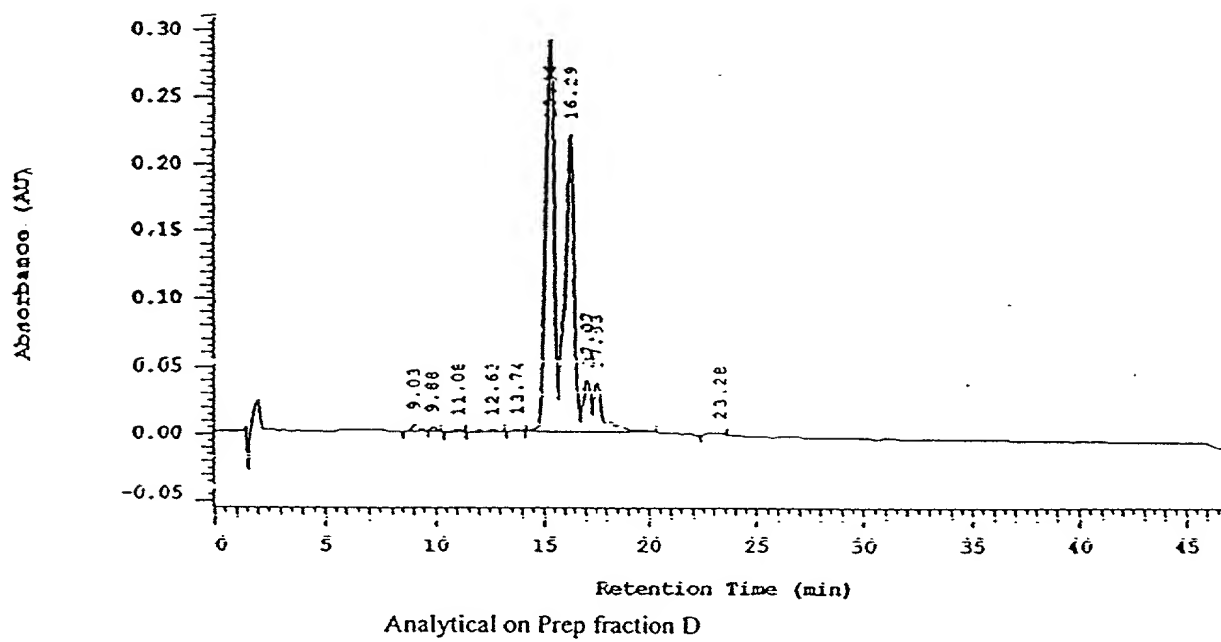
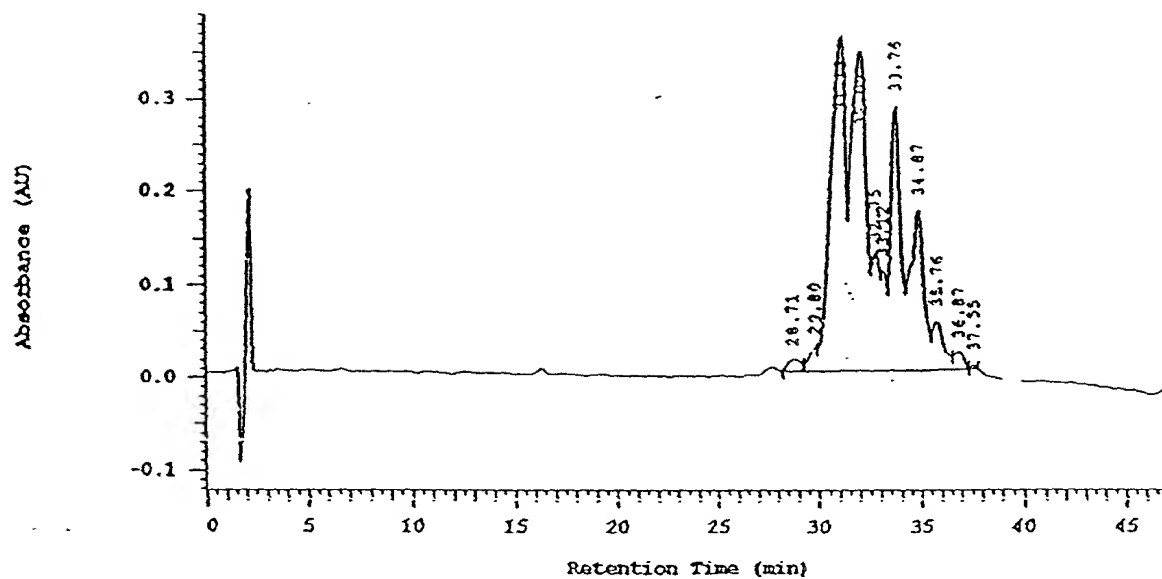
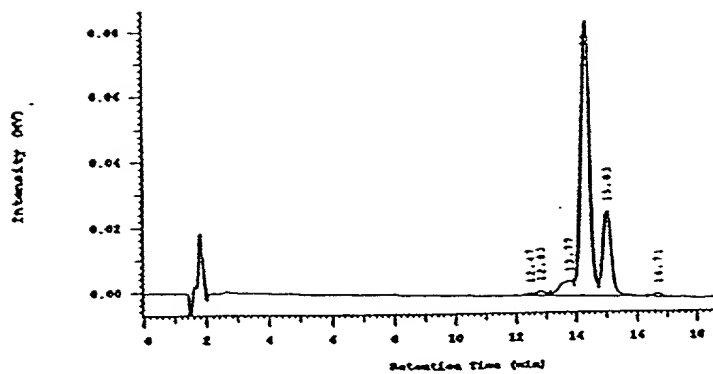


FIG 30



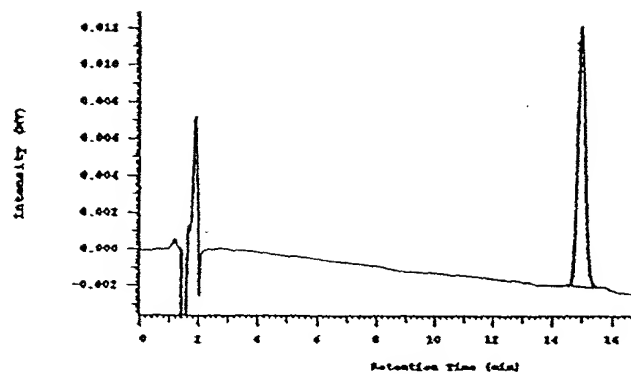
Analytical on Prep fraction G/H

FIG 31



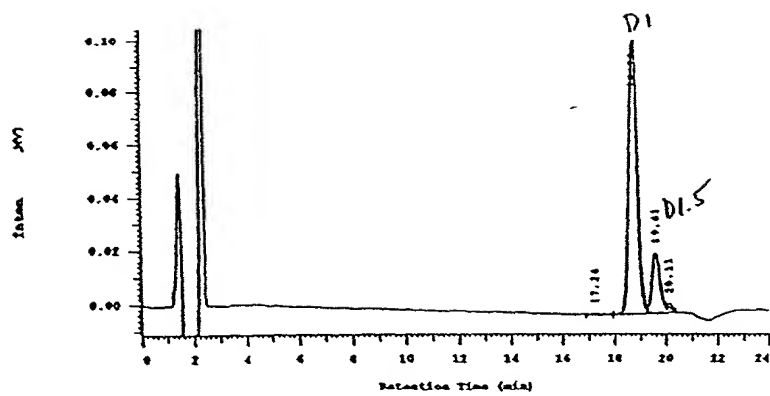
. G1 after second PFP column purification.

FIG 32



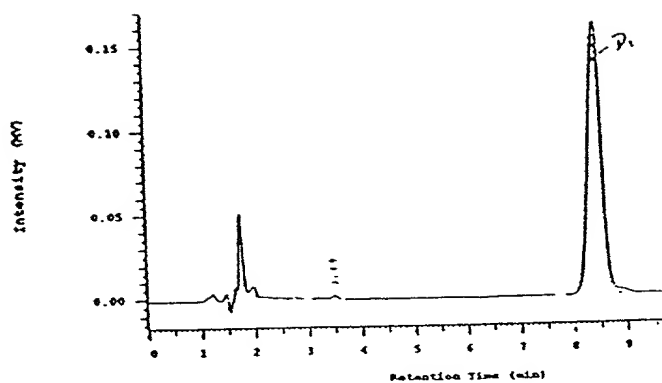
G1 after final C-18 purification

FIG 33



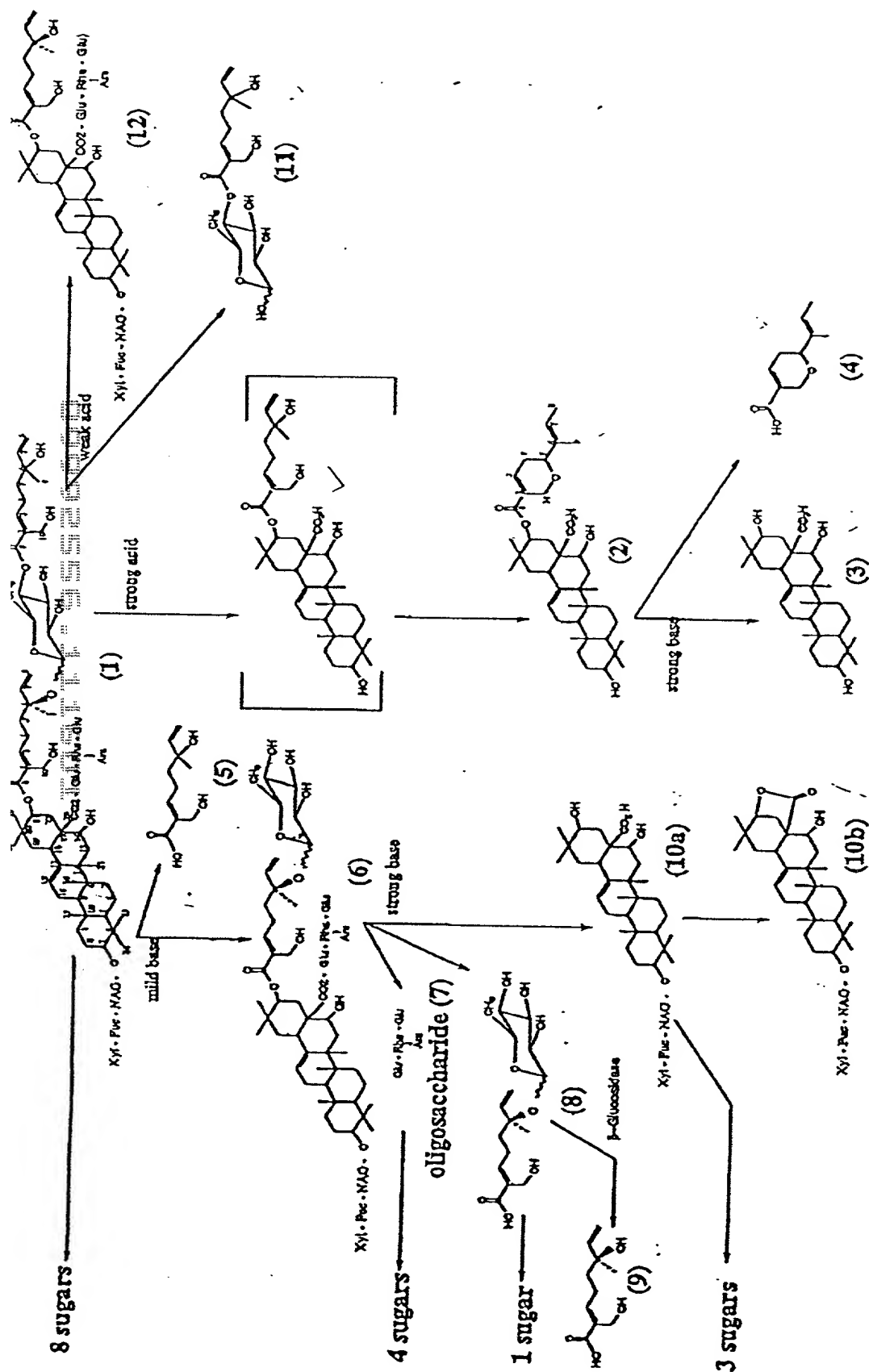
D1 after Waters C-18 column purification.

FIG 34



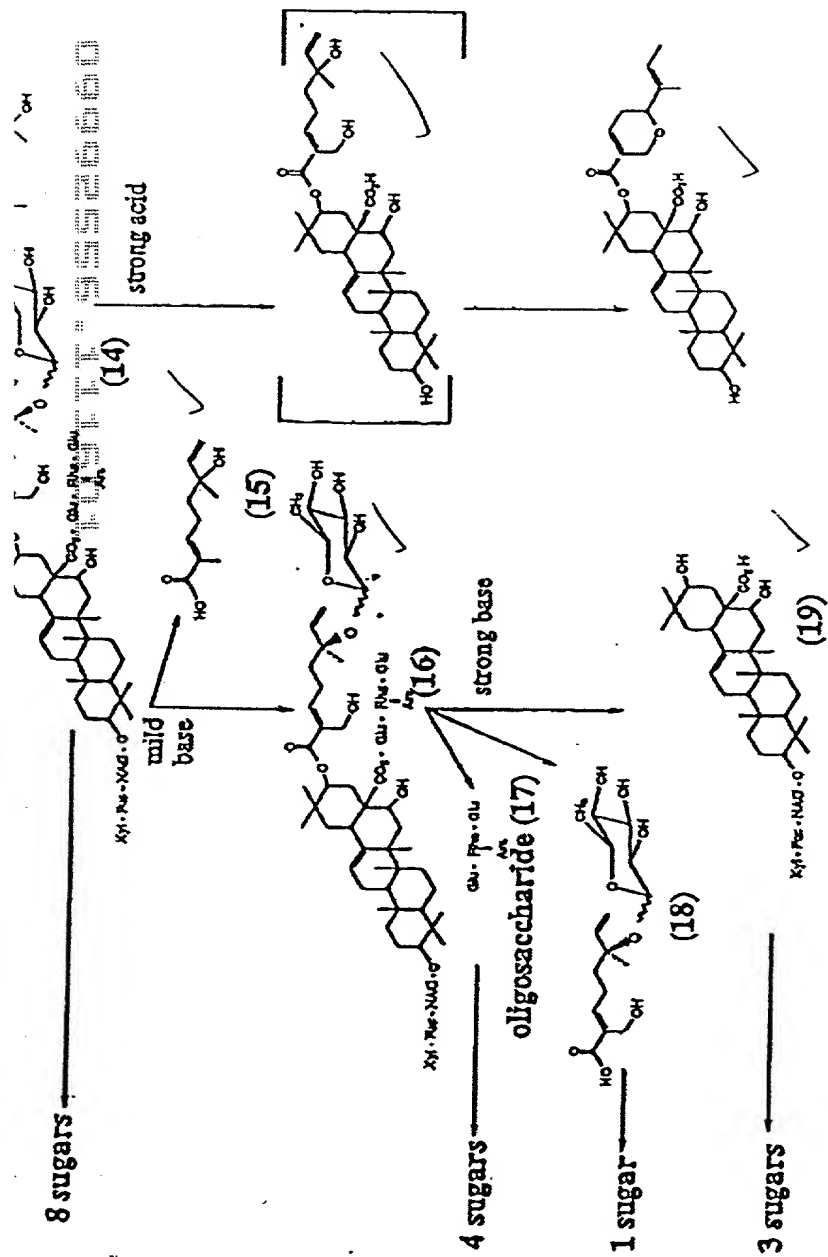
D1 after final C18-Aq purification

FIG 35



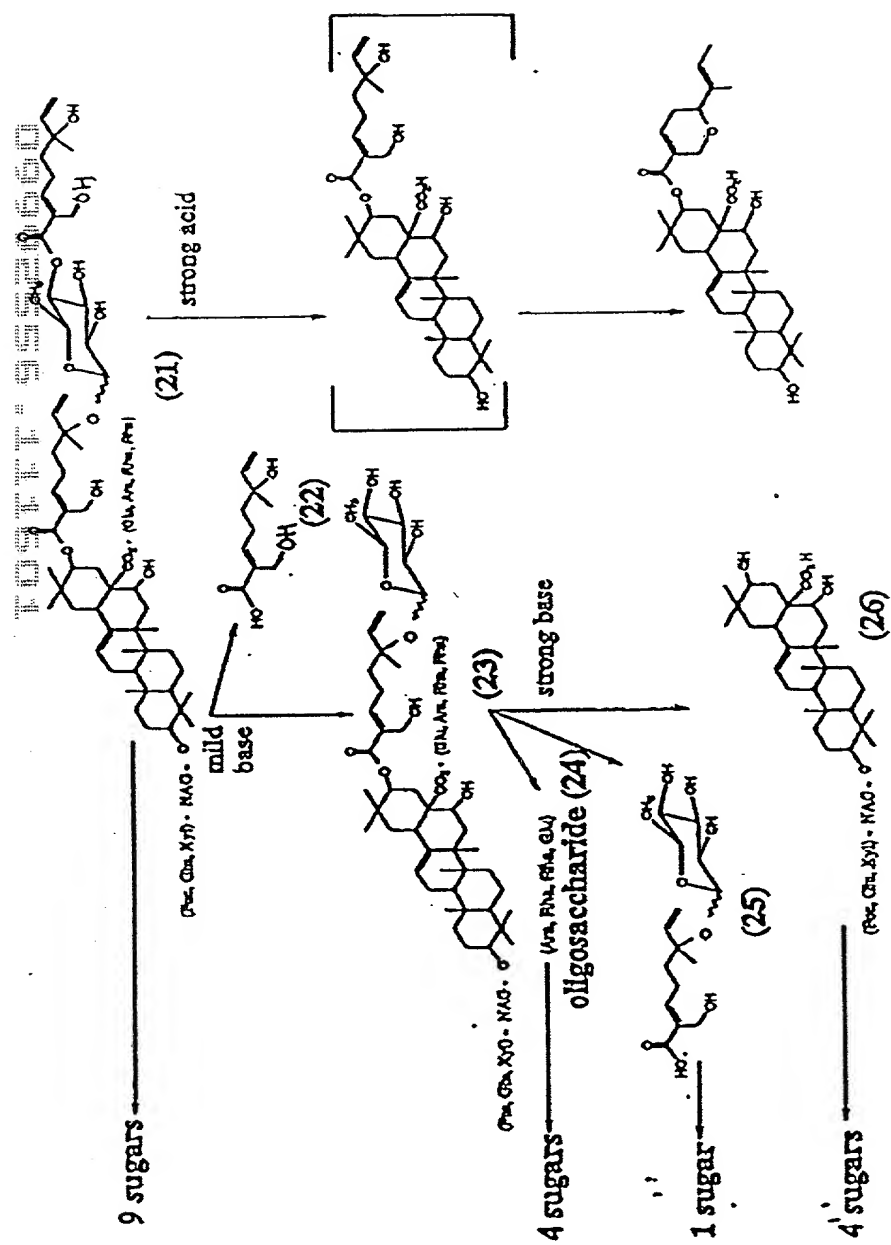
Compounds from the Degradation of D1

FIG 36



Compounds from the Degradation of G1

FIG. 37



Compounds from the Degradation of B1

FIG. 38

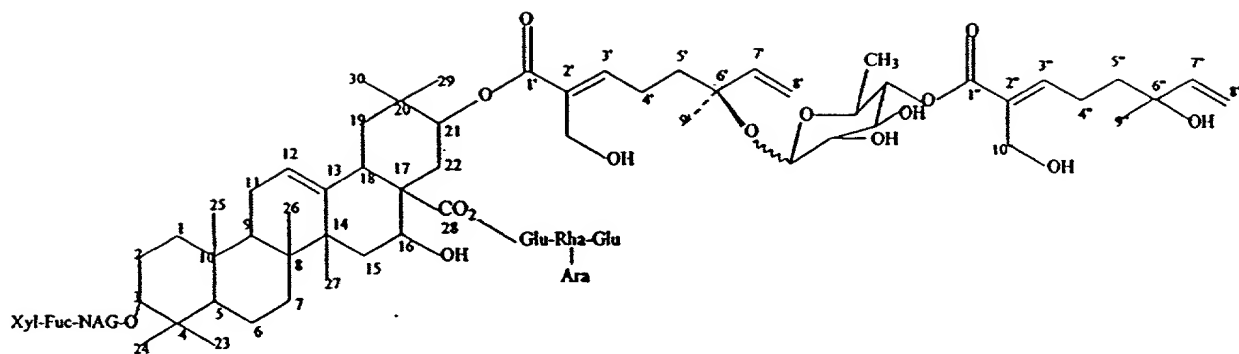


FIG. 39

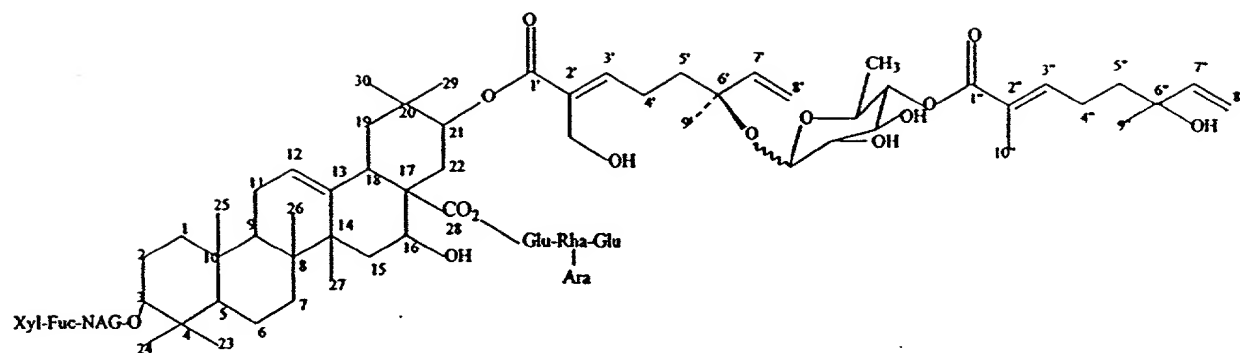


FIG. 40

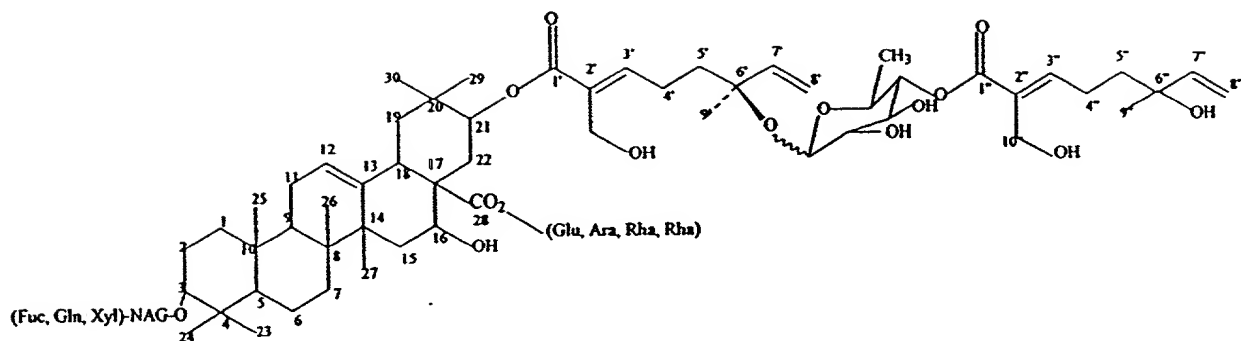
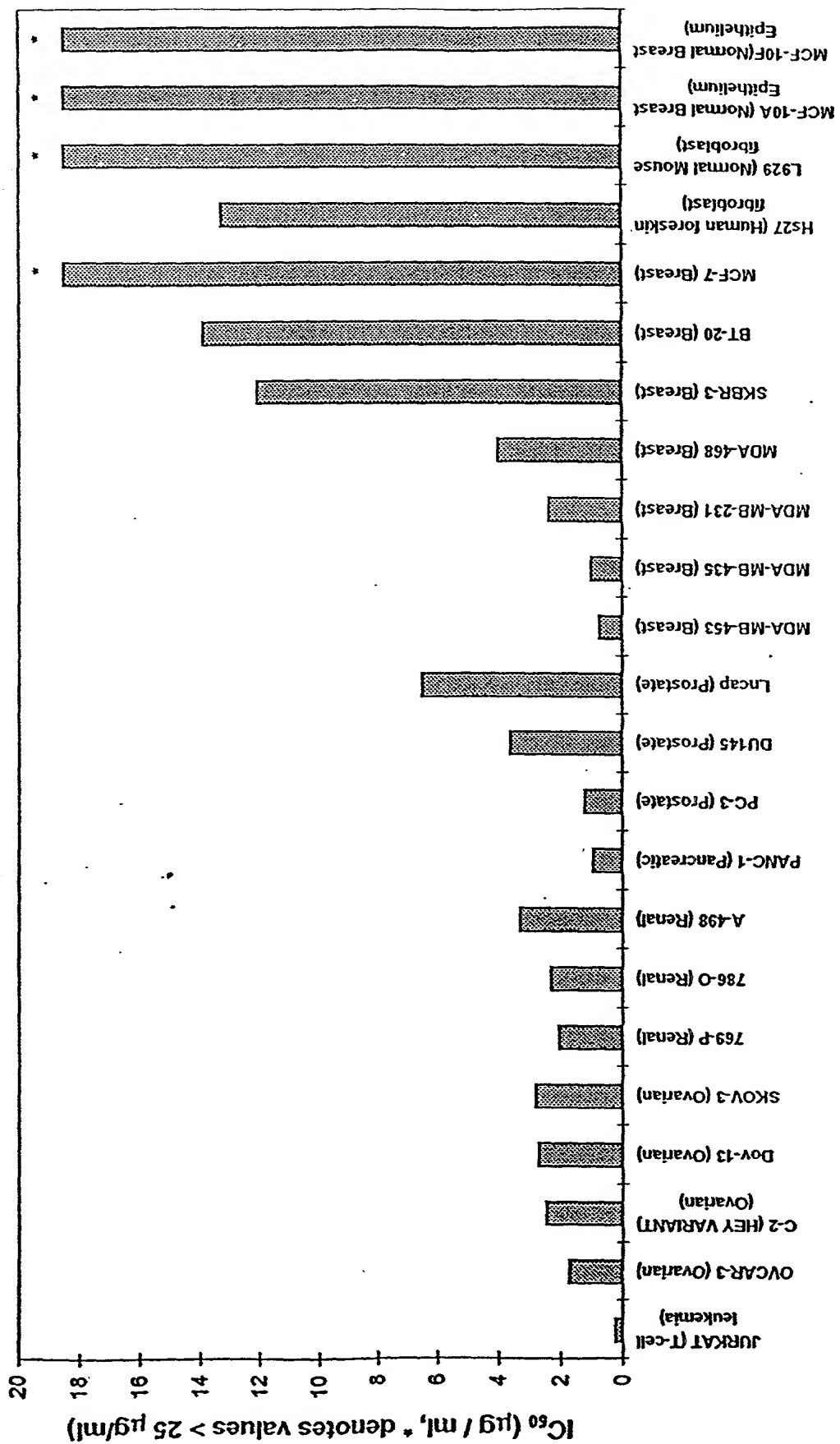


FIG. 41



Cell Lines

FIG. 42

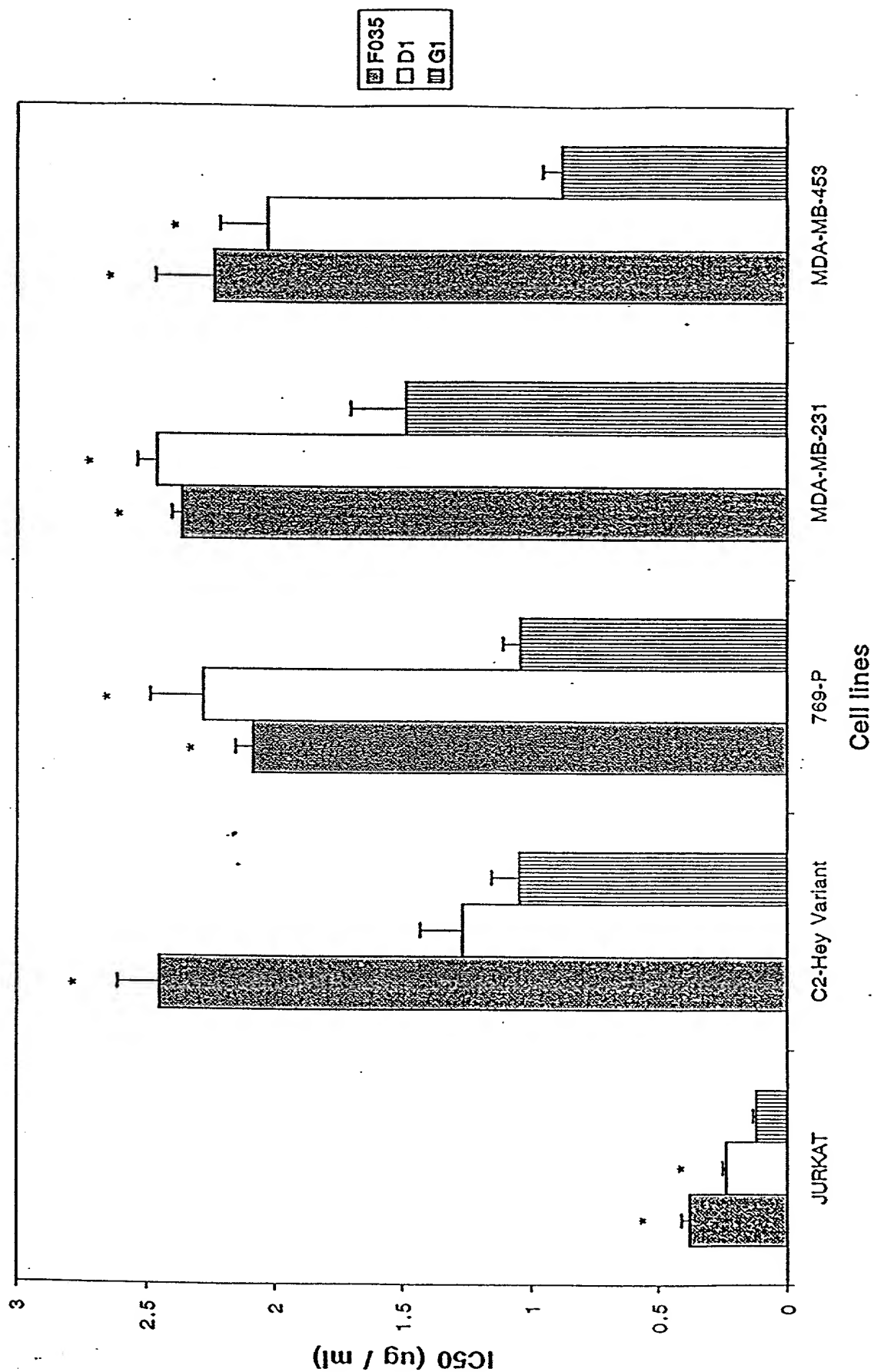
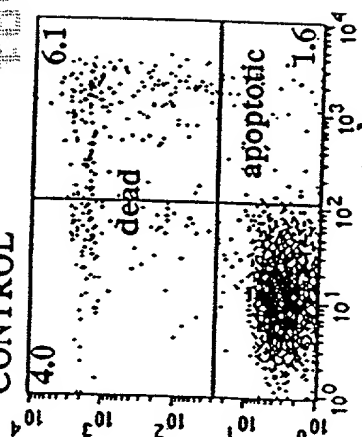


FIG 43

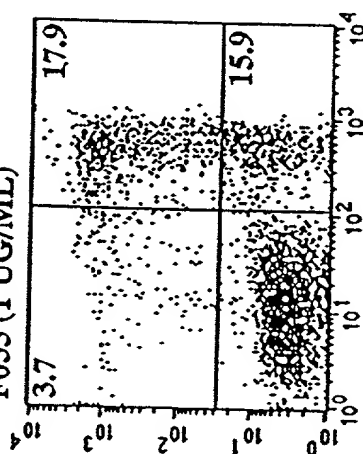
CONTROL

TEST 992660

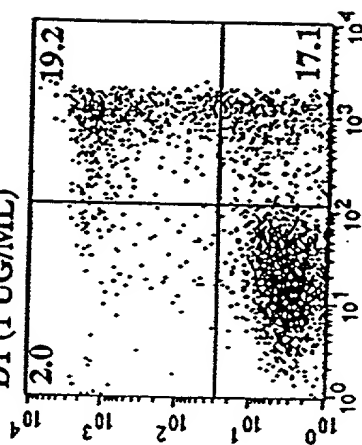
PI



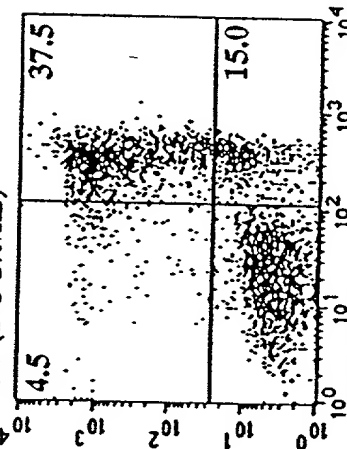
F035 (1 UG/ML)



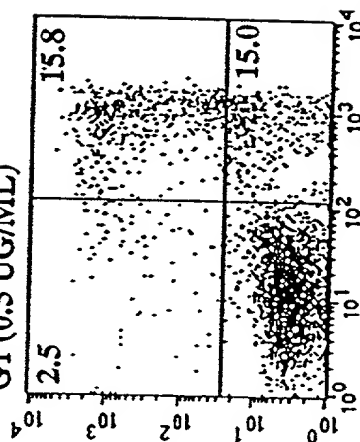
D1 (1 UG/ML)



G1 (1 UG/ML)



G1 (0.5 UG/ML)



ANNEXIN-V-FITC

FIG 44

Fraction 35 treatment

Time (h)

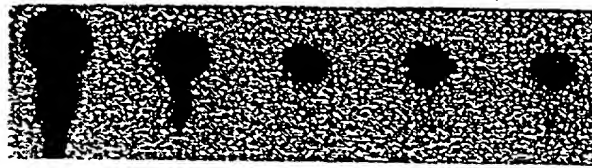


2

6

15

Wort



B

Control	F035 0.5 ug/ml	F035 1 ug/ml	D1 0.5 ug/ml	D1 1 ug/ml	G1 0.5 ug/ml	G1 1 ug/ml	Wort

THR 308

% Inhibition

0 36 36 35 41 60 78 93

Ser 473

% Inhibition

0 17 34 17 24 50 79 98

AKT

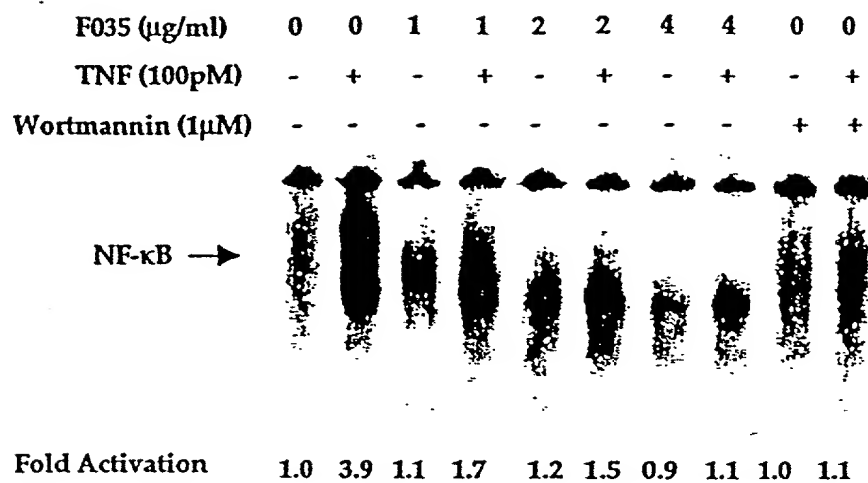
% Inhibition

0 0 19 0 3 28 57 0

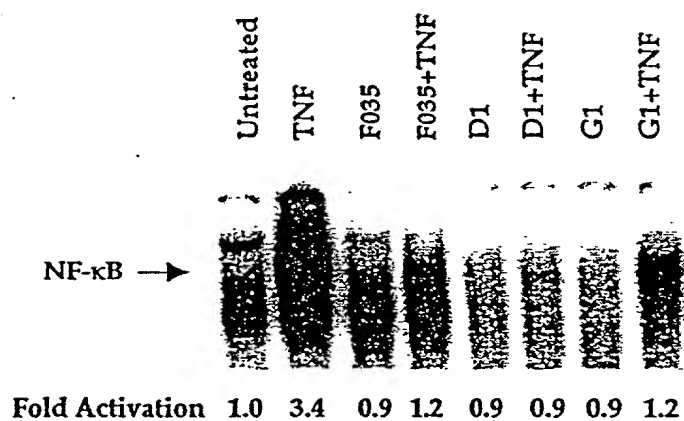
B-actin

FIG 45.5

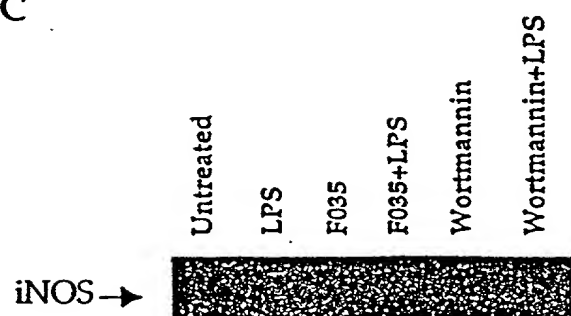
A



B



C



D

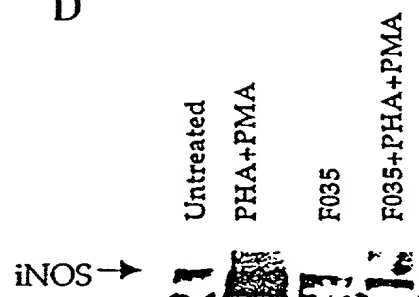


FIG 46

Effect of F035 & D1 on cleavage of PARP in Jurkat cells.

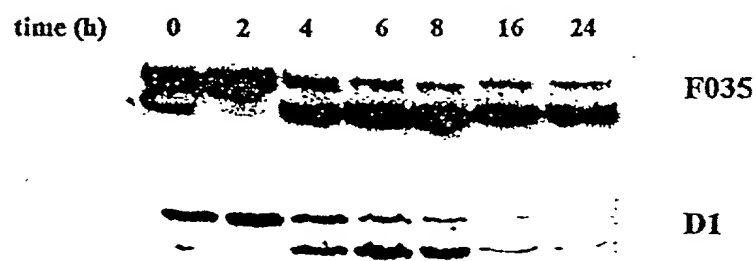


FIG 47

Effect of z-vad fmk on F035 induced PARP cleavage in Jurkat cells

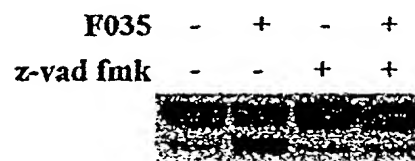


FIG 48

Effect of F035, F094, D1 & G1 on caspase activity in Jurkat cells.

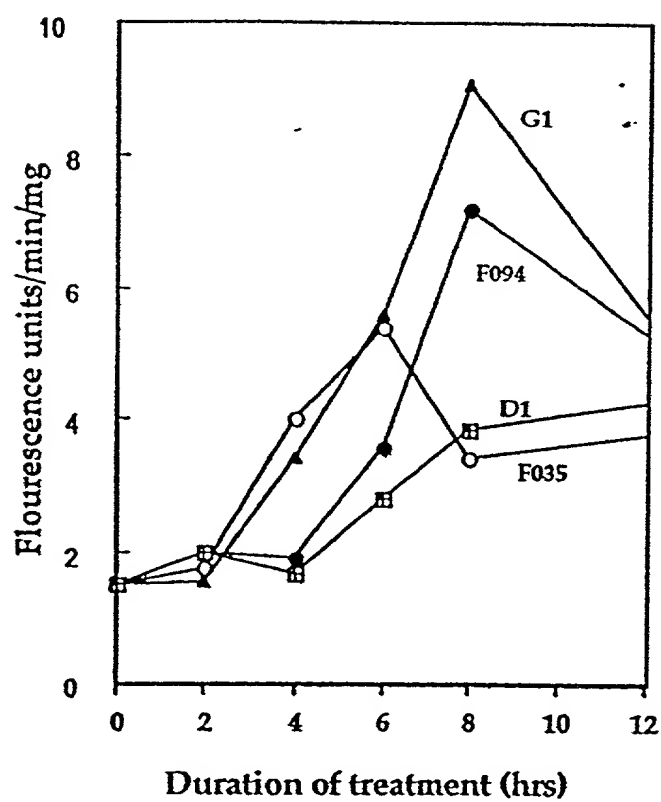


FIG 49

Effect of F035 on cytochrome c release from Jurkat mitochondria


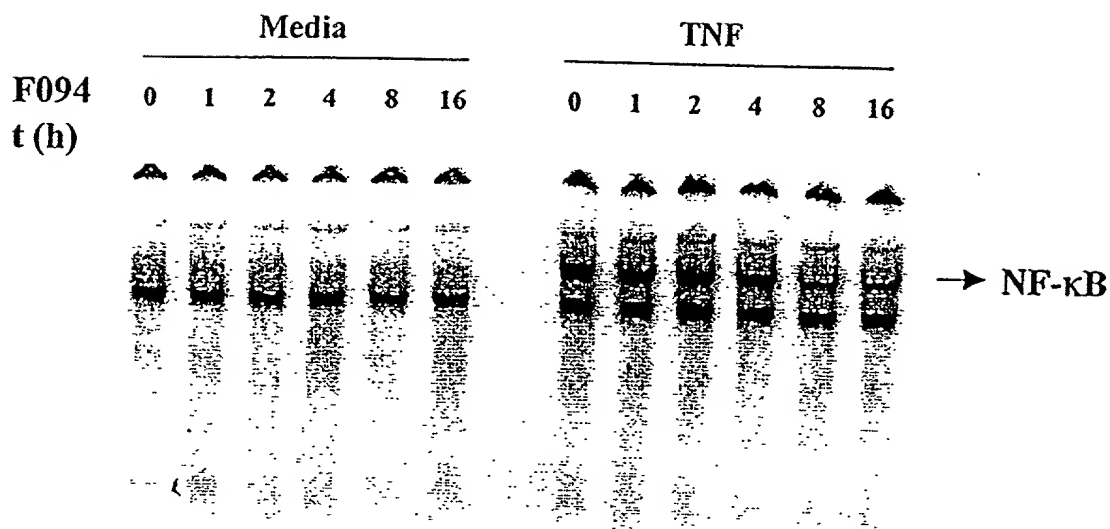
time (h) 0 4 6
  → Cytochrome c

FIG 50

A



B

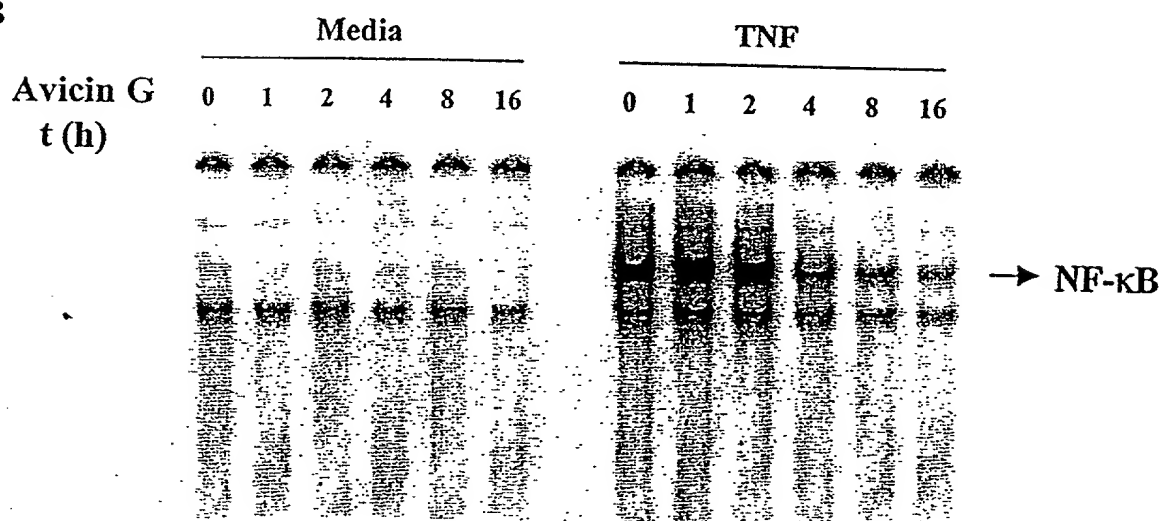
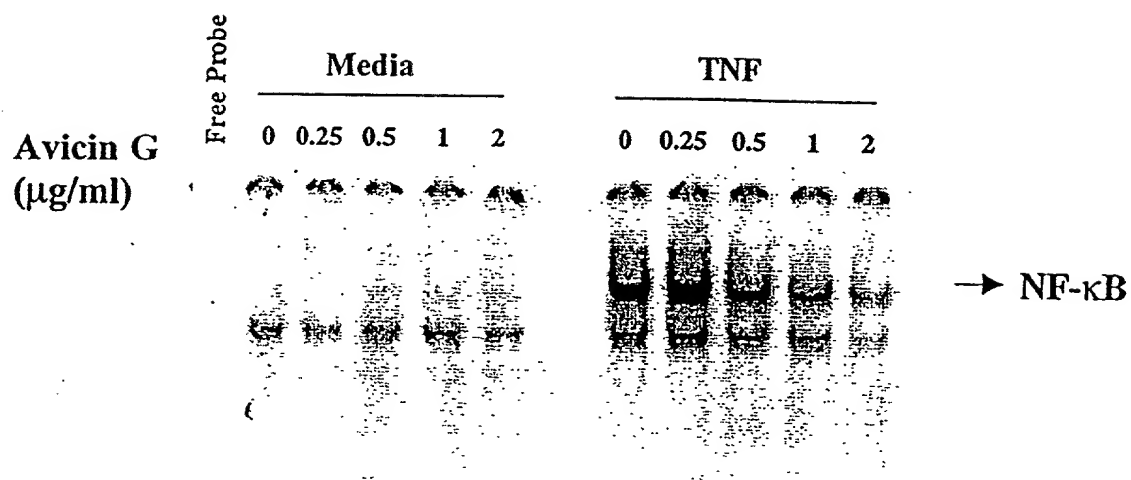


FIG. 51 A-B

A



B

Rabbit IgG	-	-	-	-	-	+
anti-p65	-	-	-	-	+	-
Cold wt	-	-	-	+	-	-
Cold mut	-	-	+	-	-	-
TNF	-	+	+	+	+	+

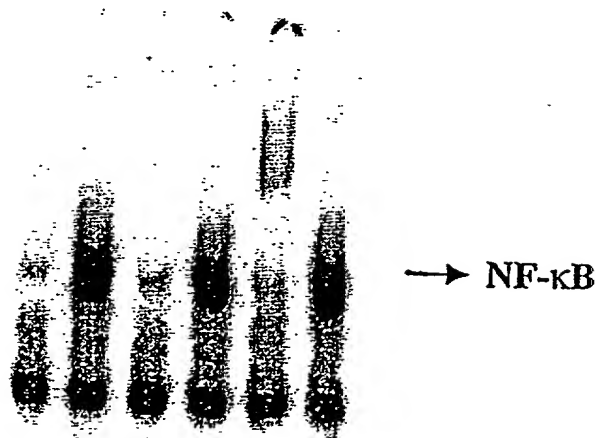


FIG. 52 A-B

A **I κ B**

Time (min) 0 2 5 10 15 30



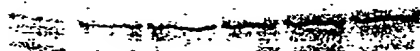
Untreated



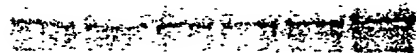
Avicin G

B **p65**

Time (min) 0 2 5 10 15 30



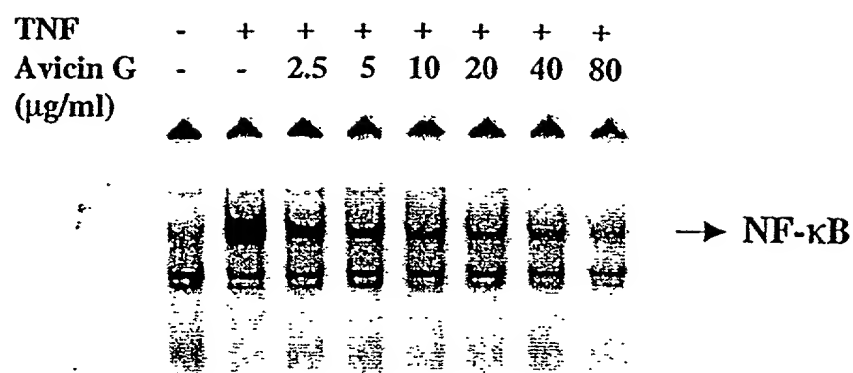
Untreated



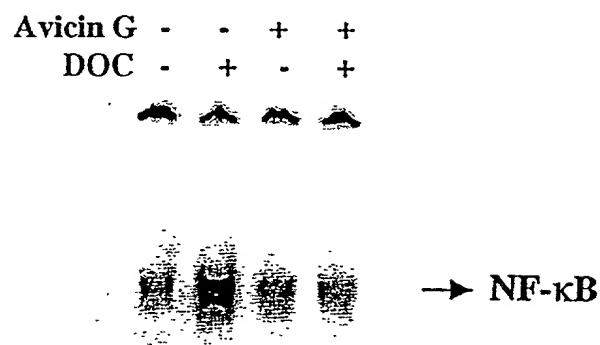
Avicin G

FIG. 53 A-B

A



B



C

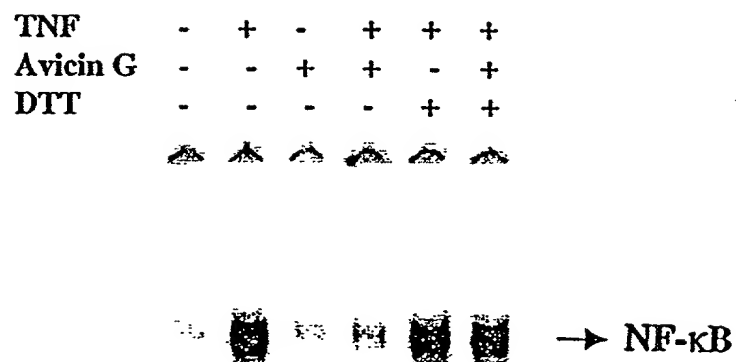
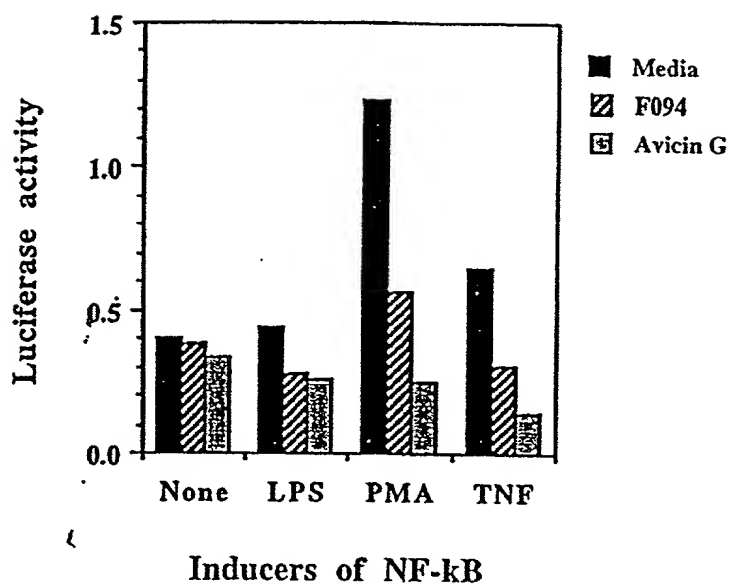


FIG. 54 A, B, C

A



B

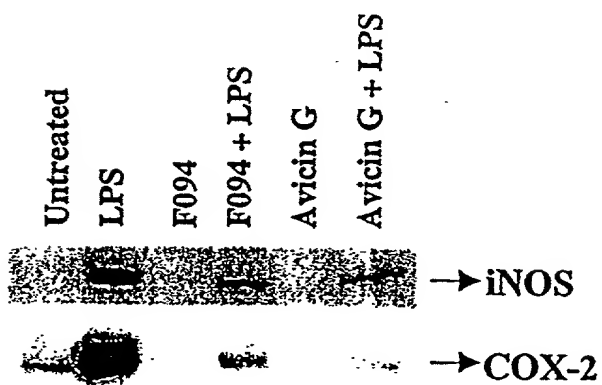
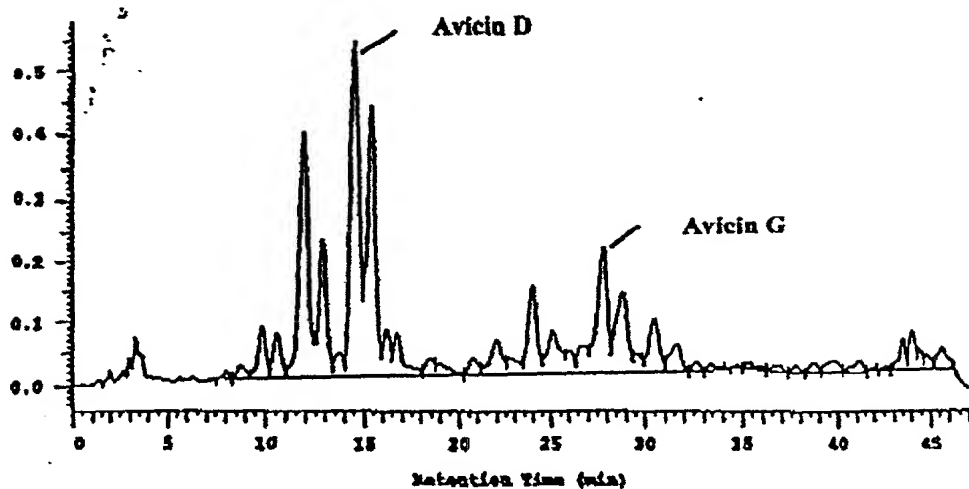


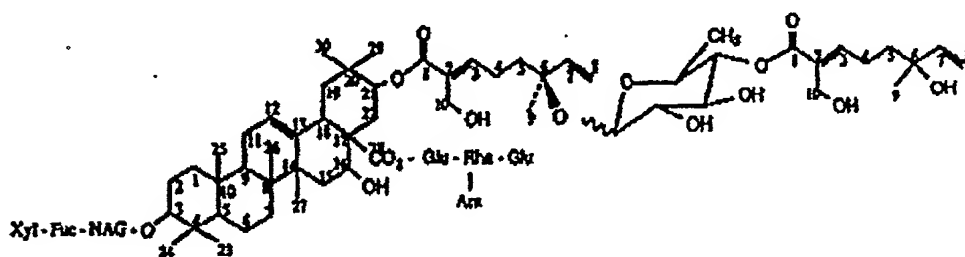
FIG. 55 A, B



IC₅₀ Values

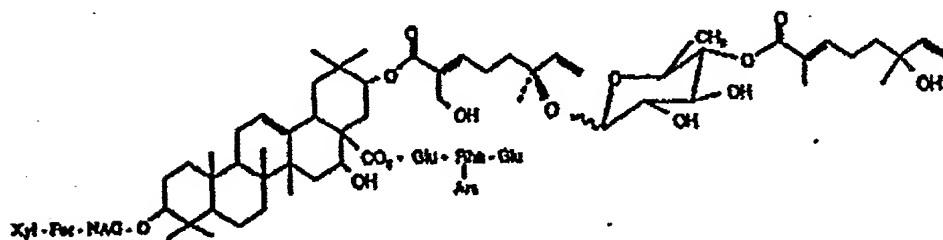
HPLC Separation of the Avicins in F094

0.331-0.407 $\mu\text{g/ml}$



Avicin D

0.320-0.326 $\mu\text{g/ml}$



Avicin G

0.160-0.181 $\mu\text{g/ml}$

FIG. 56

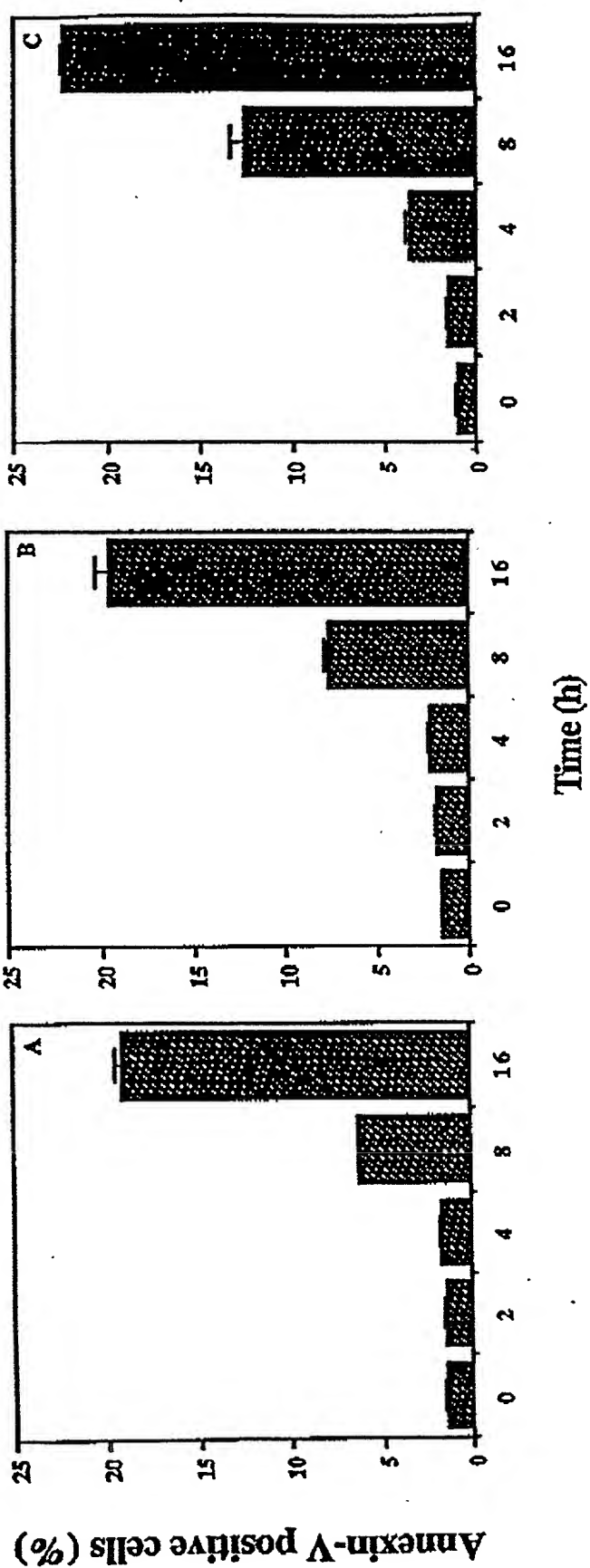


FIG. 57

Time (h) 0 0.5 1 2 4



Mixture

Fold increase 1.0 0.8 0.8 1.3 1.5



Avicin D

Fold increase 1.0 1.5 1.7 1.9 3.5



Avicin G

Fold increase 1.0 3.5 4.7 6.3 8.4

FIG. 58

Time (min) 0 1 2 5 10 20

~~0.1~~ ~~0.2~~ ~~0.5~~ ~~1~~ ~~2~~ → Cyt-c

Avicin G ($\mu\text{g/ml}$) 0 0.03 0.12 0.5 2 5

 * * * * * * \rightarrow Cyt-c

Western blot analysis of Cyt-c release. The blot shows bands for Cyt-c in five lanes: Untreated, DEVD, zVAD-fmk, Avicln G, and DEVD+Avicln G. The zVAD-fmk lane shows a strong band, while the other lanes show very faint bands. An arrow points to the Cyt-c band.

FIG. 59

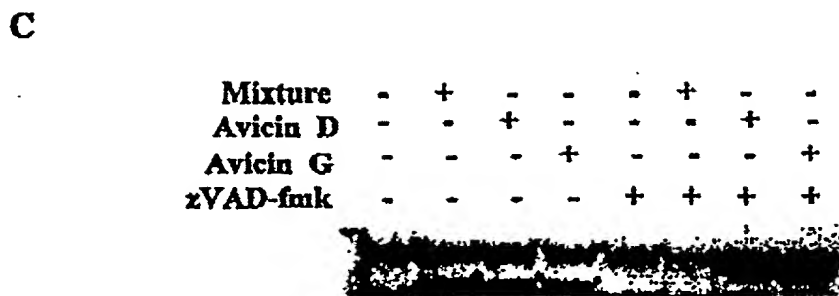
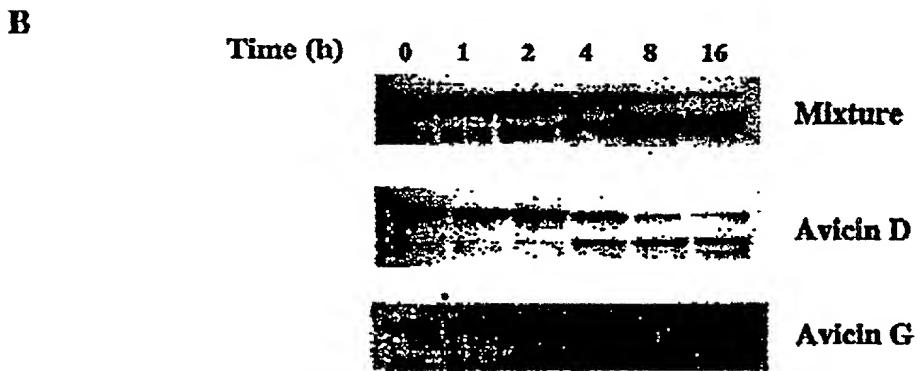
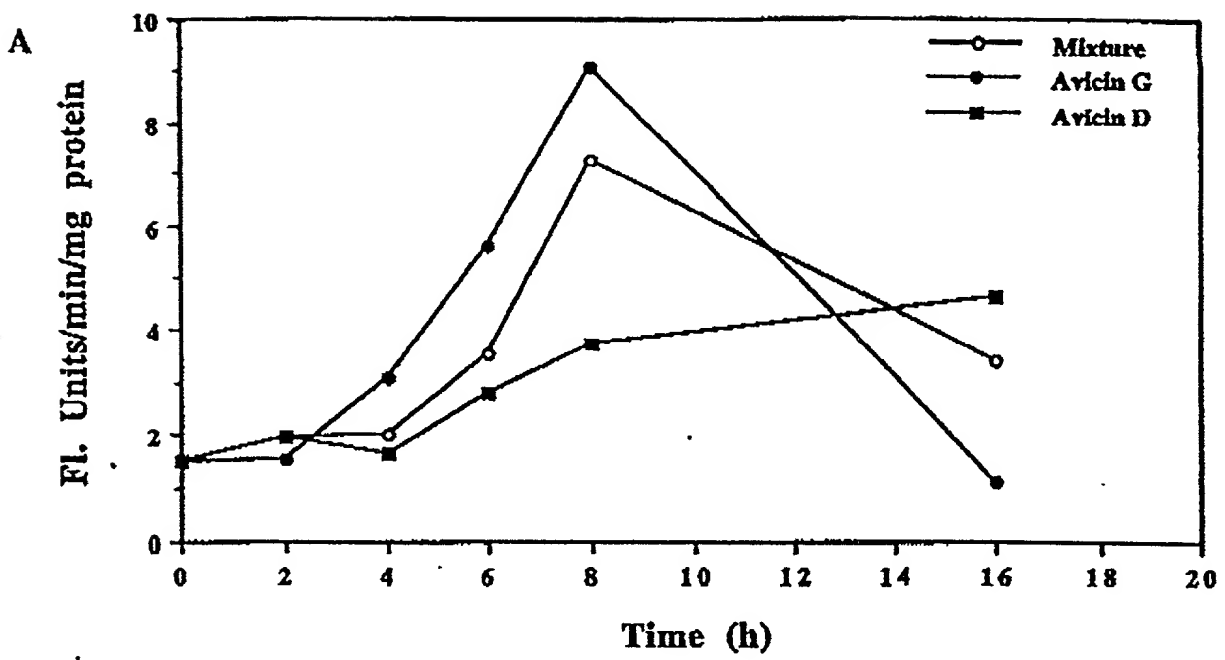


FIG. 60

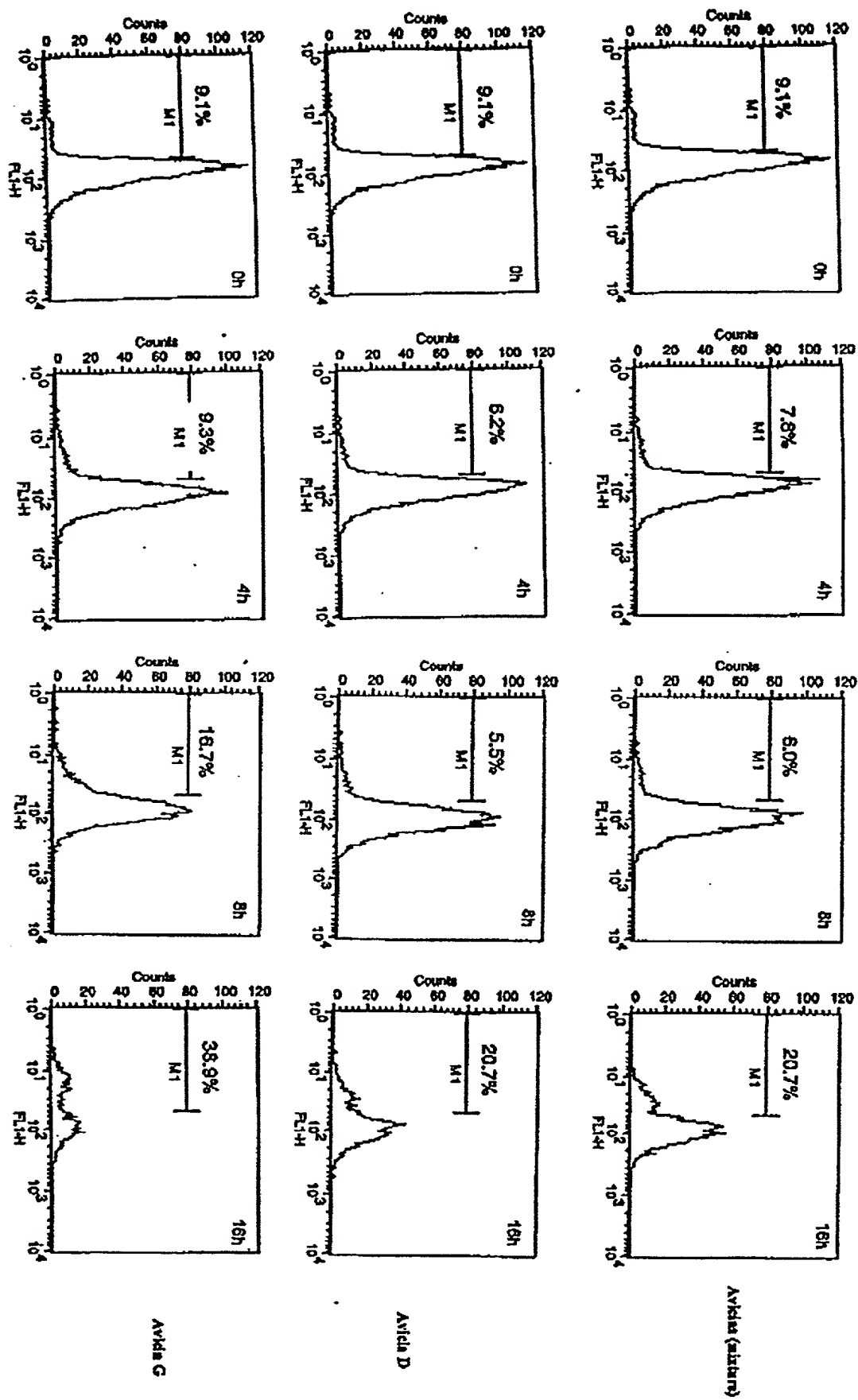


FIG. 61

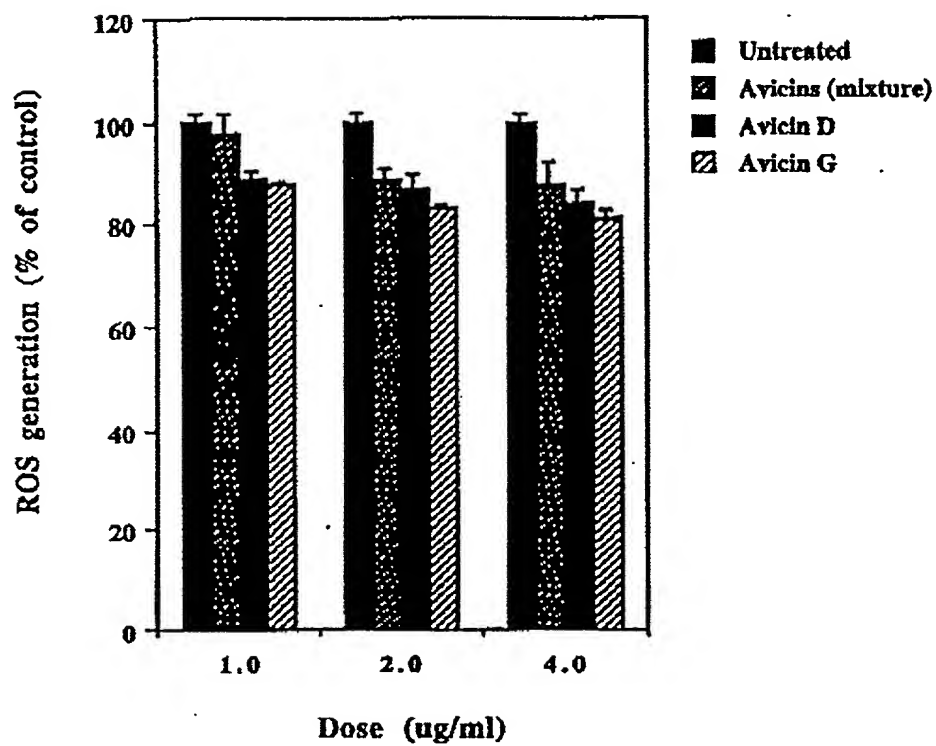


FIG. 62